Packet #3 - D1

Date_____ Period____

Solve each equation.

1) $-8 - 4v - 3v = 20$

2) $4b + 5b = 0$

3) $-3 = x + 6 - 1$

4) $24 = 4x + 4x$

5) $-4(7b + 4) = -184$

6) $-392 = 8(-1 + 6n)$

7) $90 = 3(6 + 4n)$

8) $-5(3 + 6n) = 165$

9) $8(6 - b) = -3(4 + 6b) + 4b$

10) $-(2p + 3) - 5 = 7p - (2p + 8)$

11) $-2-2(7-2a)=-5(a-4)$

12) $-8+2(3v-2)=-3(5v-3)$

Factor each completely.

13) $r^2+11r+24$

14) $6r^2+66r+60$

15) $3x^2+9x+6$

16) $2a^2-30a+108$

17) $5p^2-45$

18) n^2+6n

19) m^2-10m

20) $3r^2+27r+60$

21) $p^2-6p-40$

22) $3r^2+12r$

Answers to Packet #3 - D1 (ID: 1)

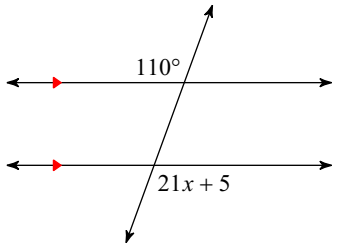
1) $\{-4\}$
2) $\{0\}$
3) $\{-8\}$
4) $\{3\}$
5) $\{6\}$
6) $\{-8\}$
7) $\{6\}$
8) $\{-6\}$
9) $\{-10\}$
10) $\{0\}$
11) $\{4\}$
12) $\{1\}$
13) $(r+8)(r+3)$
14) $6(r+1)(r+10)$
15) $3(x+1)(x+2)$
16) $2(a-6)(a-9)$
17) $5(p-3)(p+3)$
18) $n(n+6)$
19) $m(m-10)$
20) $3(r+5)(r+4)$
21) $(p-10)(p+4)$
22) $3r(r+4)$

Packet #3 - D2

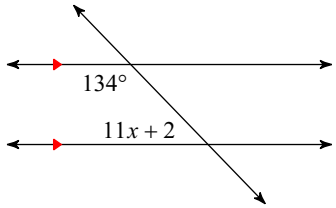
Date_____ Period____

Solve for *x*.

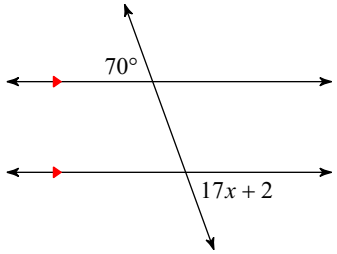
1)



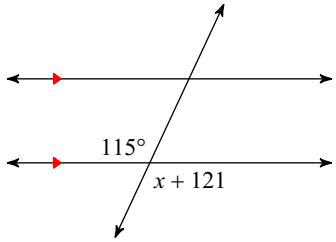
2)



3)

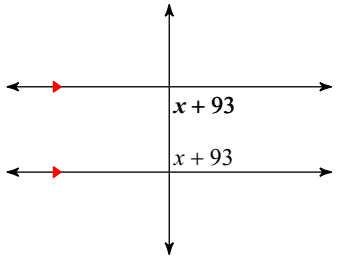


4)

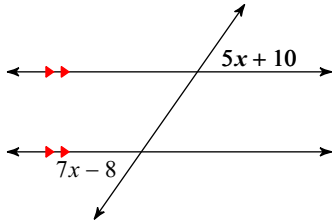


Find the measure of the angle indicated in bold.

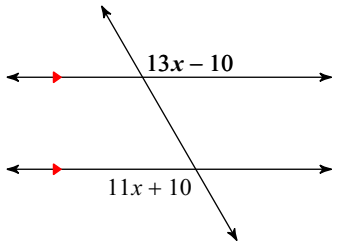
5)



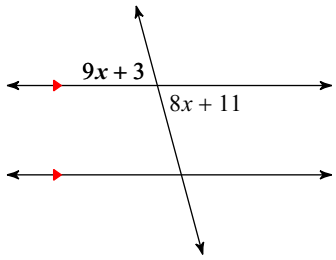
6)



7)

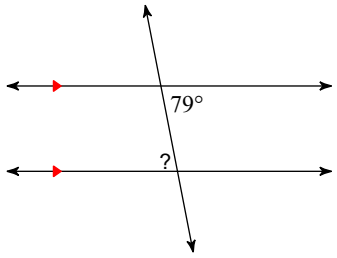


8)

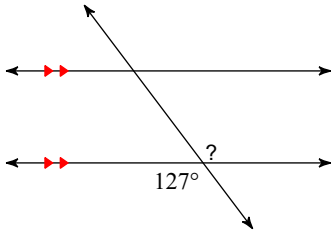


Find the measure of each angle indicated.

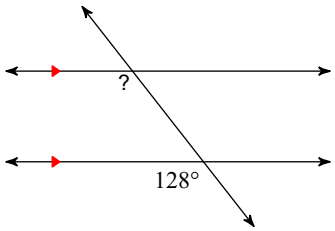
9)



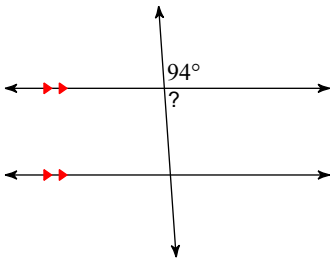
10)



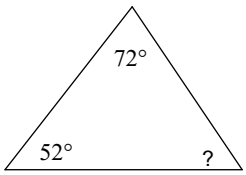
11)



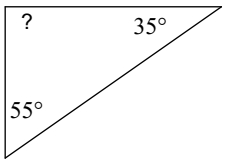
12)



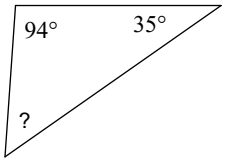
13)



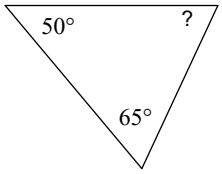
14)



15)

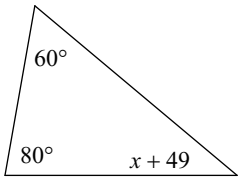


16)

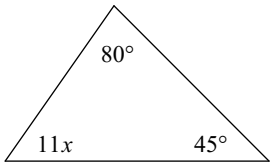


Solve for *x*.

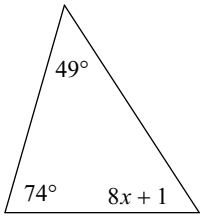
17)



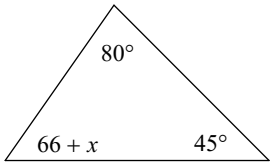
18)



19)

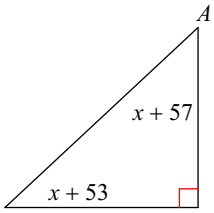


20)

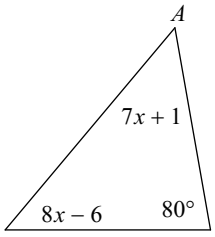


Find the measure of angle A.

21)

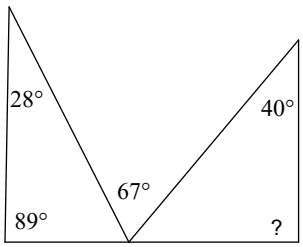


22)

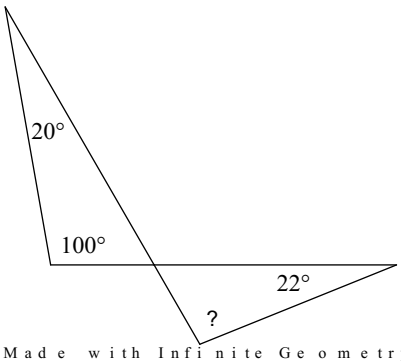


Find the measure of each angle indicated.

23)



24)

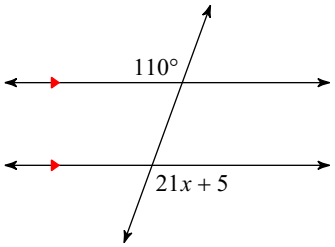


Packet #3 - D2

Date_____ Period____

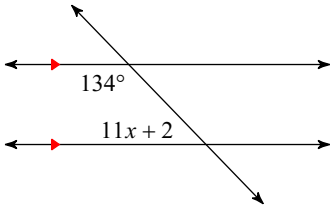
Solve for *x*.

1)



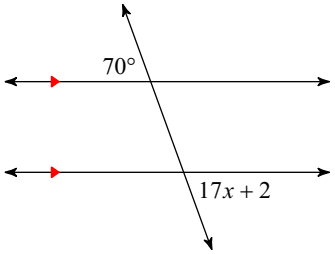
5

2)



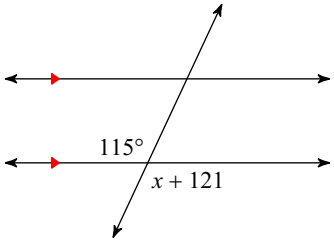
4

3)



4

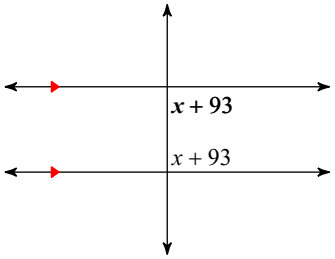
4)



−6

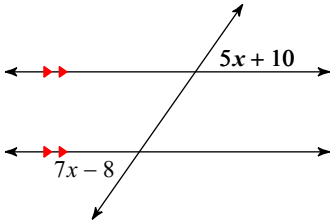
Find the measure of the angle indicated in bold.

5)



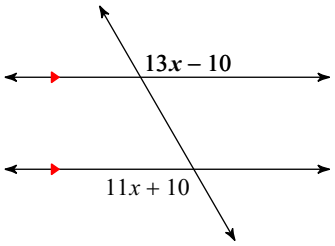
90°

6)



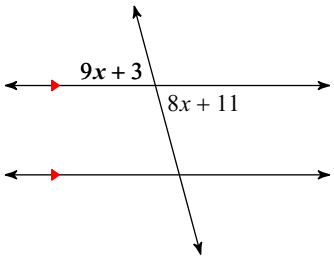
55°

7)



120°

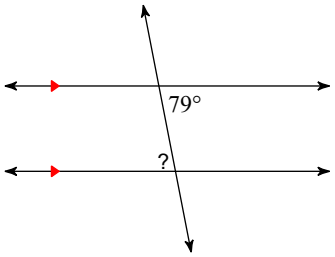
8)



75°

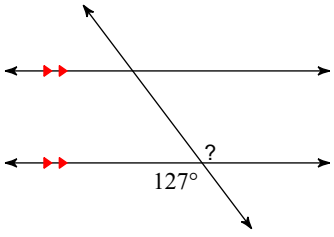
Find the measure of each angle indicated.

9)



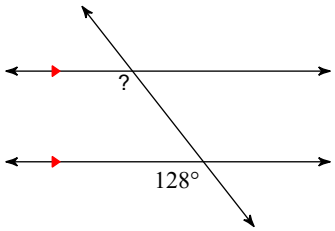
79°

10)

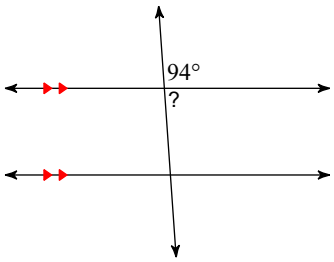


127°

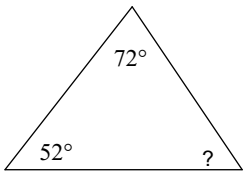
11) 128°



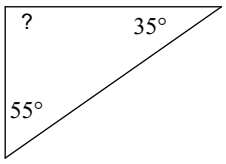
12) 86°



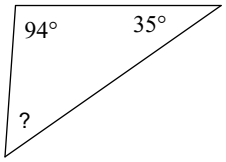
13) 56°



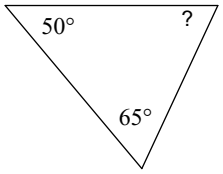
14) 90°



15) 51°

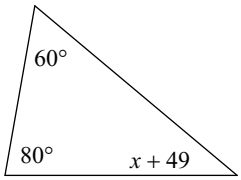


16) 65°

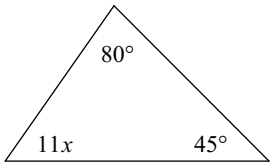


Solve for *x*.

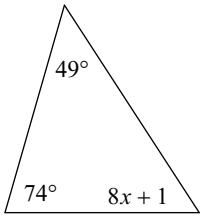
17) –9



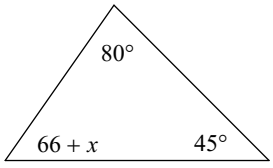
18) 5



19) 7

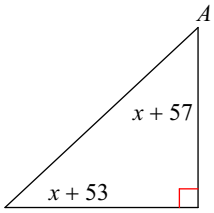


20) –11

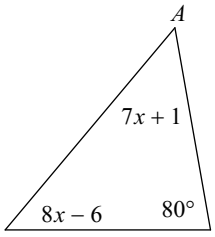


Find the measure of angle A.

21) 47°

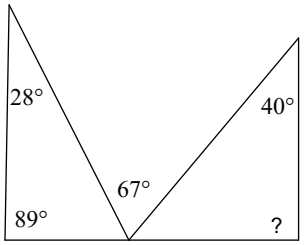


22) 50°

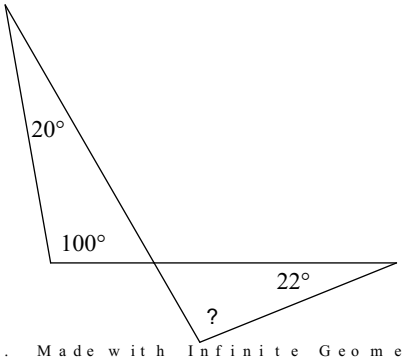


Find the measure of each angle indicated.

23) 90°



24) 98°

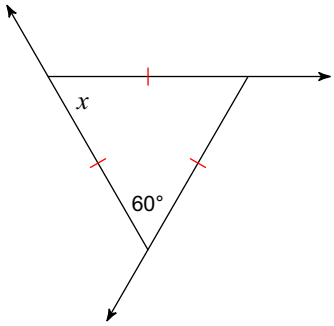


Packet #3 D3

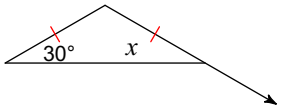
Date_____ Period____

Find the value of *x*.

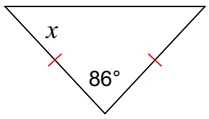
1)



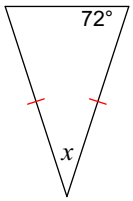
2)



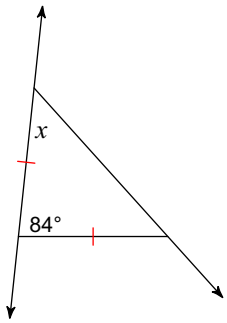
3)



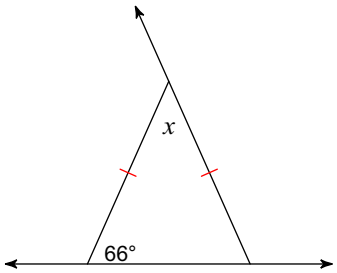
4)



5)

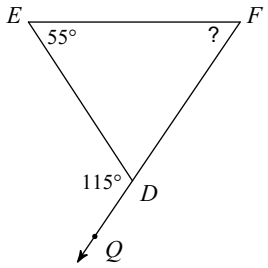


6)

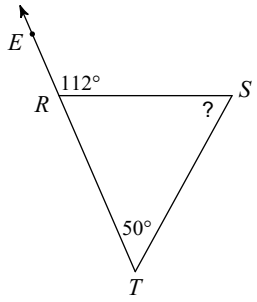


Find the measure of each angle indicated.

7)

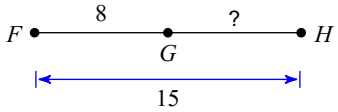


8)



Find the length indicated.

9)



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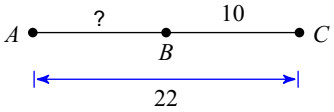
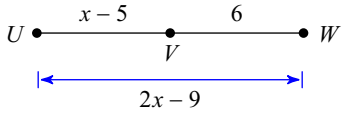
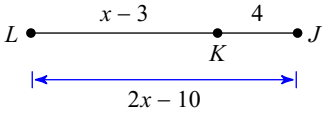


Solve for *x*.

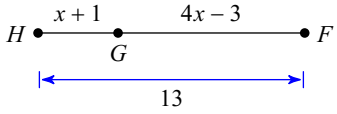
11)



12)



13)



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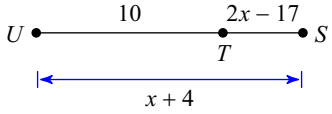
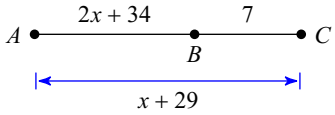
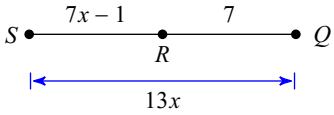


Find the length indicated.

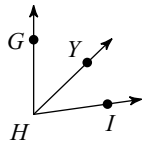
15) Find *AC*



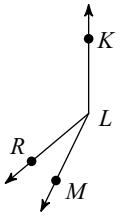
16) Find *SQ*



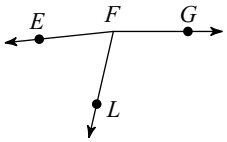
17) $m\angle YHI = 36°$ and $m\angle GHI = 82°$.
Find $m\angle GHY$.



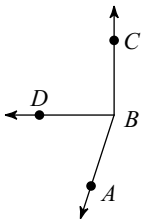
18) Find $m\angle RLK$ if $m\angle MLK = 154°$ and $m\angle MLR = 24°$.



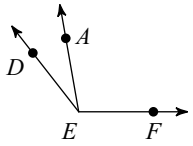
19) Find $m\angle GFL$ if $m\angle GFE = 174°$ and $m\angle LFE = 71°$.



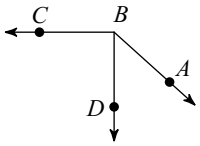
20) Find $m\angle ABD$ if $m\angle DBC = 90°$ and $m\angle ABC = 162°$.



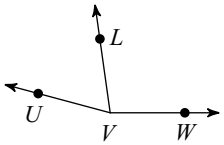
21) Find x if $m\angle DEA = x + 28$, $m\angle DEF = 2x + 128$, and $m\angle AEF = 100°$.



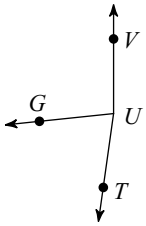
22) $m\angle ABC = 138°$, $m\angle ABD = x + 58$, and $m\angle DBC = x + 100$. Find x.



23) Find $m\angle UVL$ if $m\angle LVW = x + 109$, $m\angle UVW = 165°$, and $m\angle UVL = x + 78$.



24) Find $m\angle TUG$ if $m\angle TUV = 172°$, $m\angle GUV = 11x + 8$, and $m\angle TUG = 10x - 4$.

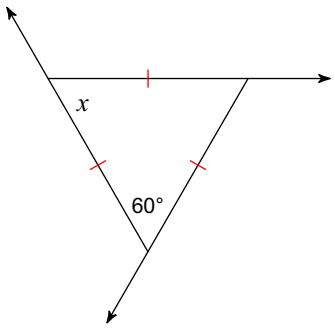


Packet #3 D3

Date_____ Period____

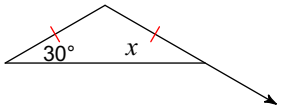
Find the value of *x*.

1)



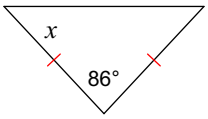
60°

2)



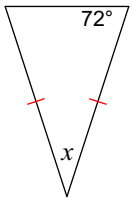
30°

3)



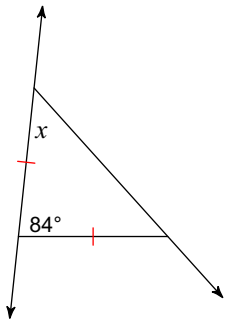
47°

4)



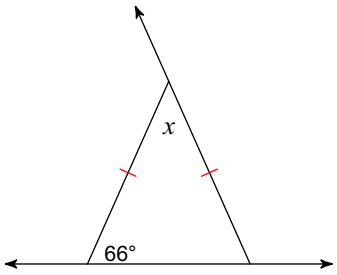
36°

5)



48°

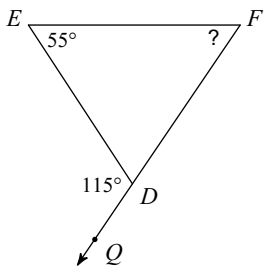
6)



48°

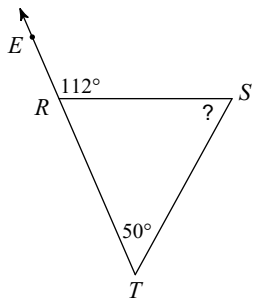
Find the measure of each angle indicated.

7)



60°

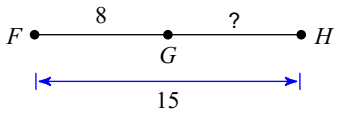
8)



62°

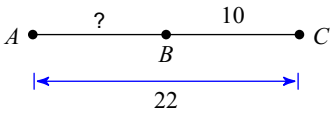
Find the length indicated.

9)



7

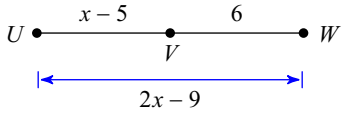
10)



12

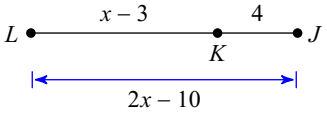
Solve for *x*.

11)



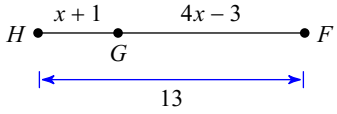
10

12)



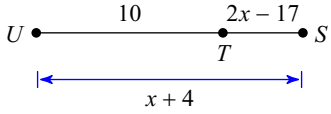
11

13)



3

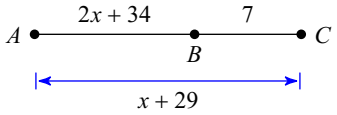
14)



11

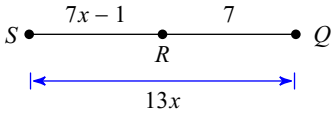
Find the length indicated.

15) Find *AC*



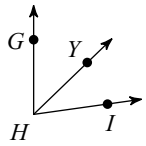
17

16) Find *SQ*



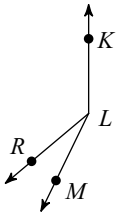
13

17) $m\angle YHI = 36°$ and $m\angle GHI = 82°$. Find $m\angle GHY$.



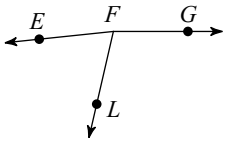
46°

18) Find $m\angle RLK$ if $m\angle MLK = 154°$ and $m\angle MLR = 24°$.



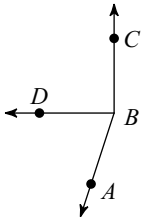
130°

19) Find $m\angle GFL$ if $m\angle GFE = 174°$ and $m\angle LFE = 71°$.



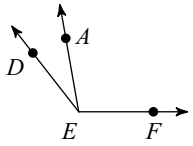
103°

20) Find $m\angle ABD$ if $m\angle DBC = 90°$ and $m\angle ABC = 162°$.



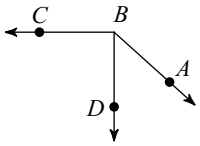
72°

21) Find x if $m\angle DEA = x + 28$, $m\angle DEF = 2x + 128$, and $m\angle AEF = 100°$.



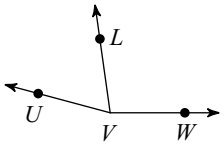
0

22) $m\angle ABC = 138°$, $m\angle ABD = x + 58$, and $m\angle DBC = x + 100$. Find x.



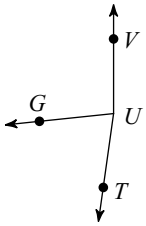
–10

23) Find $m\angle UVL$ if $m\angle LVW = x + 109$, $m\angle UVW = 165°$, and $m\angle UVL = x + 78$.



67°

24) Find $m\angle TUG$ if $m\angle TUV = 172°$, $m\angle GUV = 11x + 8$, and $m\angle TUG = 10x - 4$.



76°

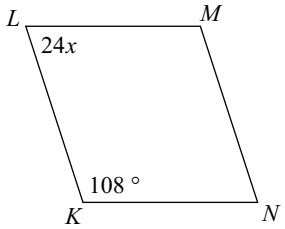
Intro to Geometry Name_____ ID: 1

Packet #3 D4

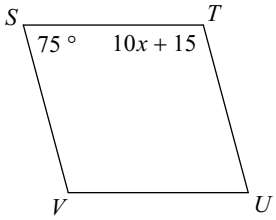
Date_____ Period____

Solve for *x*. Each figure is a parallelogram.

1)



2)



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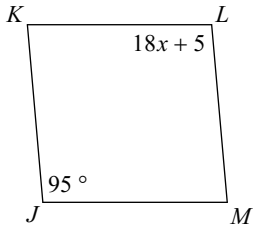
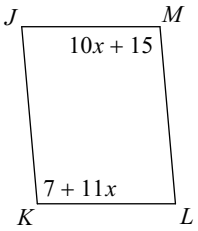
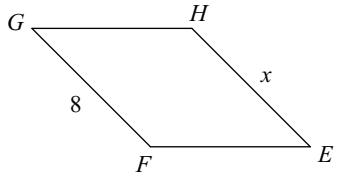


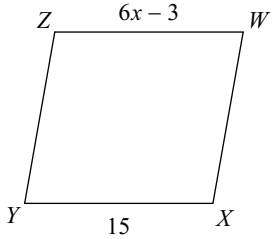
4)



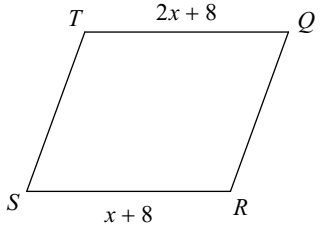
5)



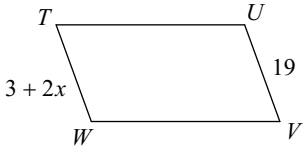
6)



7)

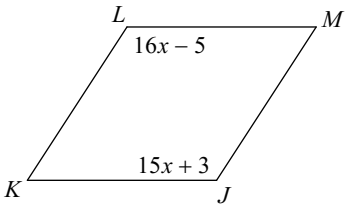


8)

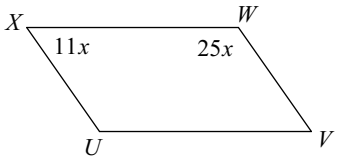


Find the measurement indicated in each parallelogram.

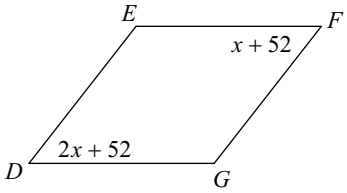
9) Find $m\angle J$



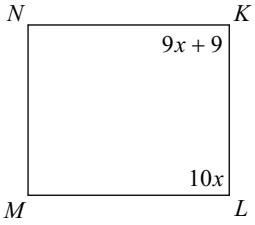
10) Find $m\angle U$



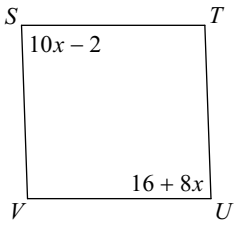
11) Find $m\angle E$



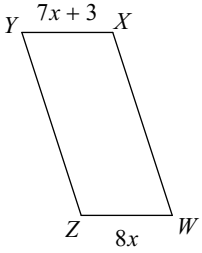
12) Find $m\angle K$



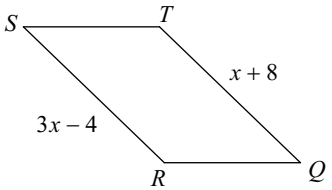
13) Find $m\angle T$



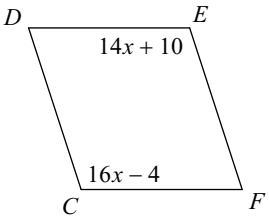
14) Find YX



15) Find RS

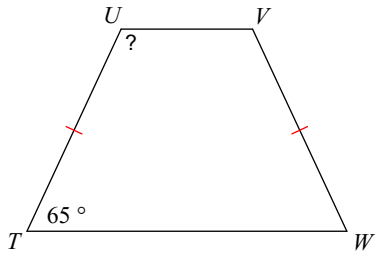


16) Find $m\angle F$

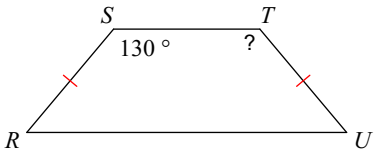


Find the measurement of the angle indicated for each trapezoid.

17)

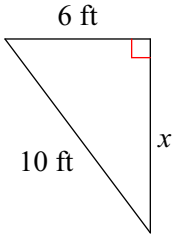


18)

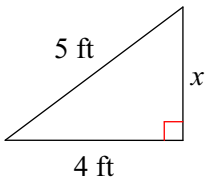


Find the missing side of each triangle. Round your answers to the nearest tenth if necessary.

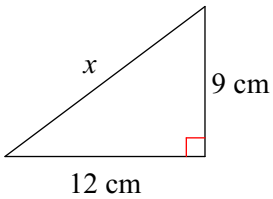
19)



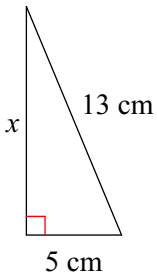
20)



21)



22)



Answers to Packet #3 D4 (ID: 1)

1) 3
2) 9
3) 5
4) 8
5) 8
6) 3
7) 0
8) 8
9) 123°
10) 125°
11) 128°
12) 90°
13) 92°
14) 24
15) 14
16) 72°
17) 115°
18) 130°
19) 8 ft
20) 3 ft
21) 15 cm
22) 12 cm

Packet #3 - D5

Date_____ Period____

Find the slope of the line through each pair of points.

1) $(-7, 5), (-16, -5)$

2) $(-12, 9), (2, 18)$

3) $(-4, -14), (-4, -20)$

4) $(-19, 12), (12, 8)$

Find the slope of each line.

5) $y = \frac{5}{4}x - 4$

6) $y = -\frac{2}{5}x + 4$

Find the slope of a line parallel to each given line.

7) $y = \frac{3}{5}x$

8) $y = -\frac{4}{5}x - 4$

Find the slope of a line perpendicular to each given line.

9) $y = -\frac{1}{2}x - 3$

10) $y = 8x - 3$

Find the midpoint of the line segment with the given endpoints.

11) $(10, 9), (6, 7)$

12) $(-9, -7), (-8, -8)$

13) $(0, -10), (-6, -9)$

14) $(2, -7), (8, 0)$

Find the other endpoint of the line segment with the given endpoint and midpoint.

15) Endpoint: $(10, 6)$, midpoint: $(-9, 7)$

16) Endpoint: $(-8, 0)$, midpoint: $(8, -1)$

Find the distance between each pair of points.

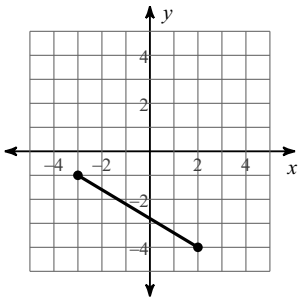
17) $(-4, 2)$, $(8, -8)$

18) $(-4, -1)$, $(-5, -6)$

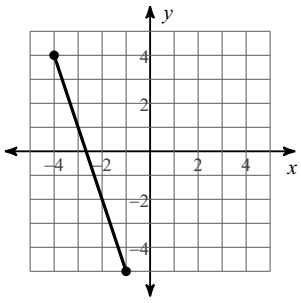
19) $(-7, -1)$, $(-1, 3)$

20) $(2, -4)$, $(-1, 4)$

21)



22)



Answers to Packet #3 - D5 (ID: 1)

1) $\frac{10}{9}$

2) $\frac{9}{14}$

3) Undefined

4) $-\frac{4}{31}$

5) $\frac{5}{4}$

6) $-\frac{2}{5}$

7) $\frac{3}{5}$

8) $-\frac{4}{5}$

9) 2

10) $-\frac{1}{8}$

11) $(8, 8)$

12) $\left(-8\frac{1}{2}, -7\frac{1}{2}\right)$

13) $\left(-3, -9\frac{1}{2}\right)$

14) $\left(5, -3\frac{1}{2}\right)$

15) $(-28, 8)$

16) $(24, -2)$

17) $2\sqrt{61}$

18) $\sqrt{26}$

19) $2\sqrt{13}$

20) $\sqrt{73}$

21) $\sqrt{34}$

22) $3\sqrt{10}$

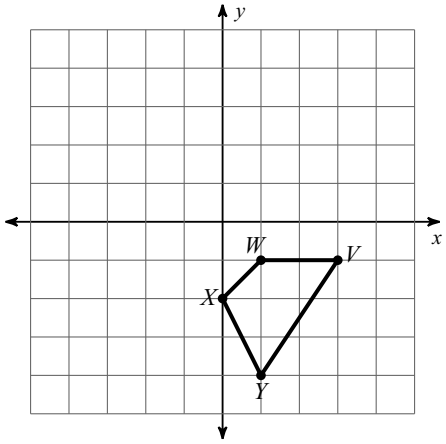
Intro to Geometry Name_____ ID: 1

Packet #3 D6

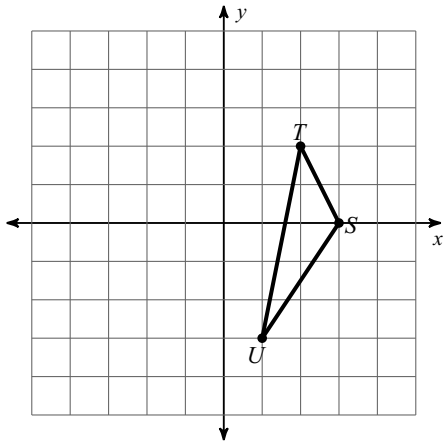
Date_____ Period____

Graph the image of the figure using the transformation given.

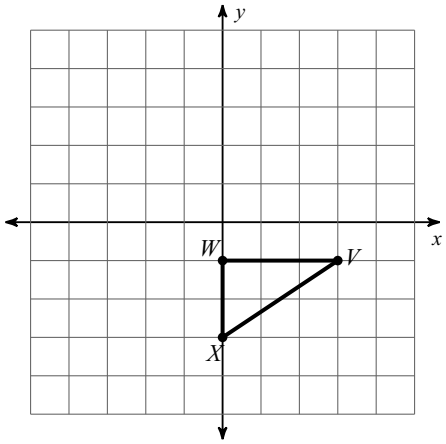
1) translation: 6 units up



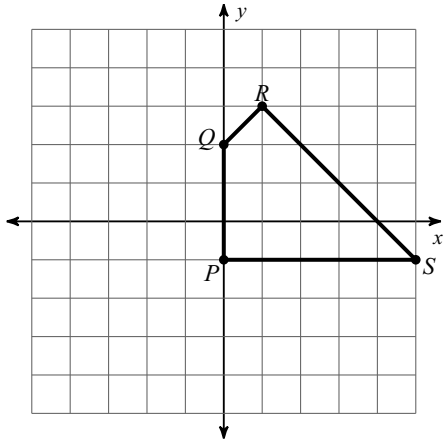
2) reflection across $y = -x$



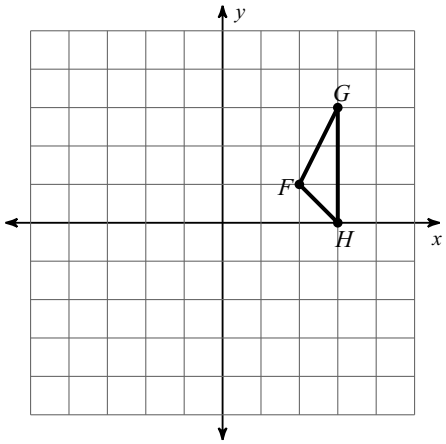
3) translation: 2 units right and 1 unit up



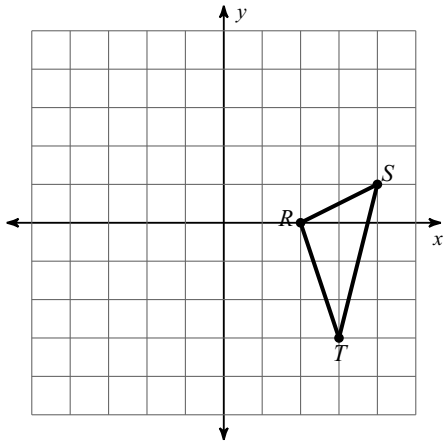
4) reflection across $y = 1$



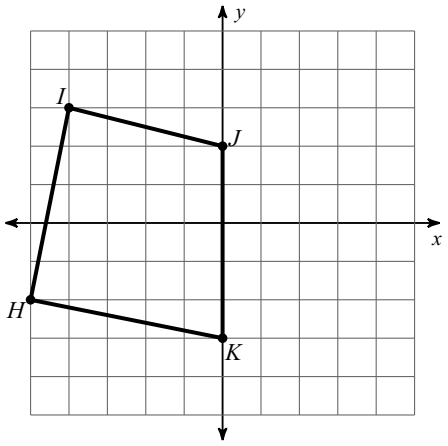
5) reflection across $y = x$



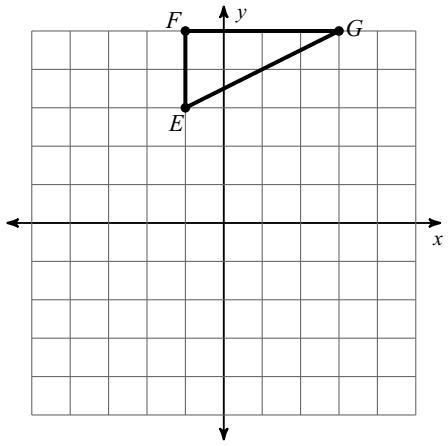
6) reflection across $y = x$



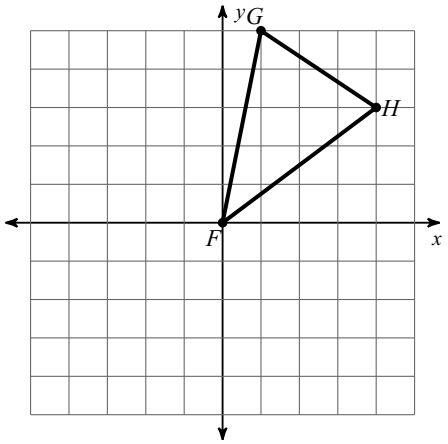
7) translation: 3 units right and 1 unit up



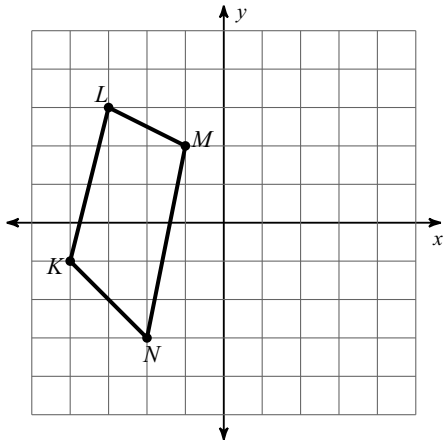
8) translation: 3 units left and 5 units down



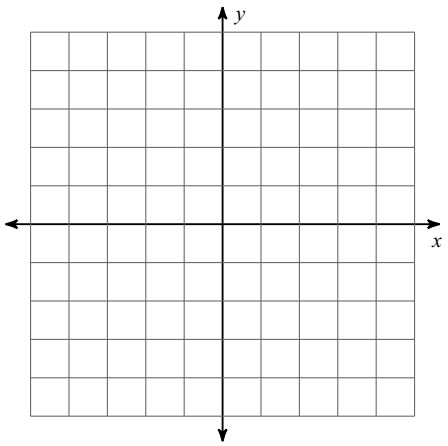
9) reflection across $x = 2$



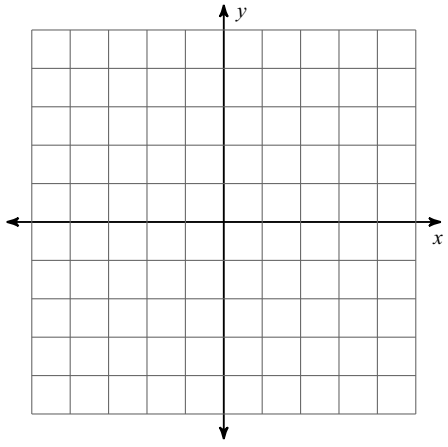
10) reflection across $y = x$



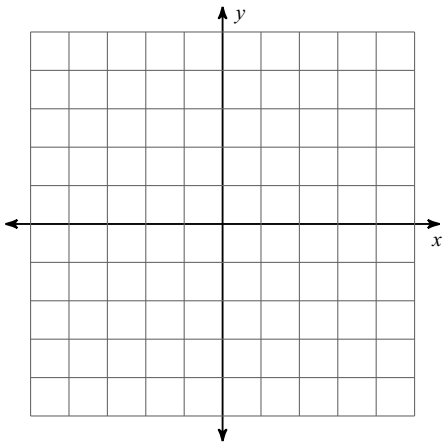
11) reflection across $y = 1$
$F(1, 5)$, $G(3, 5)$, $H(3, 2)$



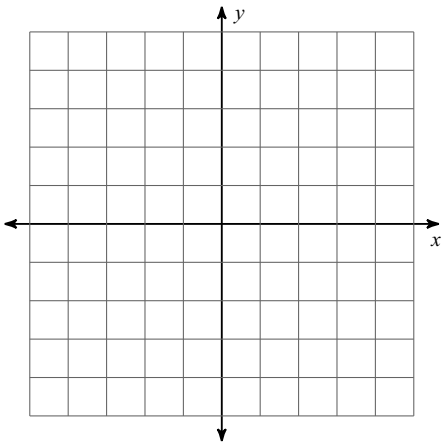
12) translation: 3 units right and 5 units down
$H(-3, 1)$, $I(-3, 5)$, $J(2, 3)$



13) translation: 1 unit down
$Q(-2, -3)$, $R(-4, 0)$, $S(0, 3)$, $T(3, -2)$

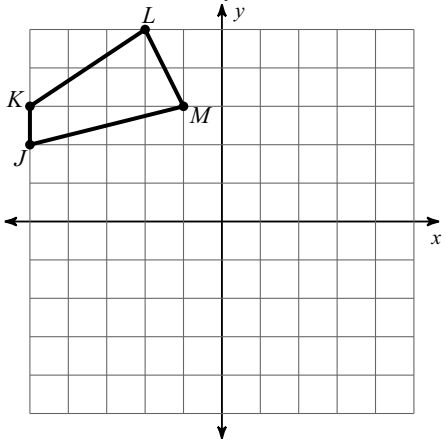


14) reflection across $x = -2$
$A(-5, -4)$, $B(-5, -3)$, $C(-3, -1)$, $D(-1, -5)$

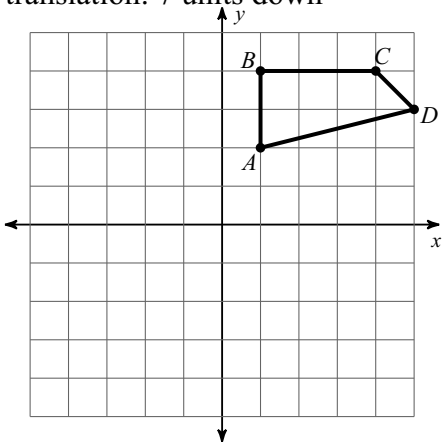


Find the coordinates of the vertices of each figure after the given transformation.

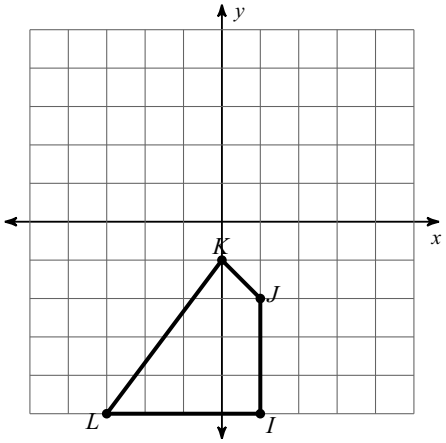
15) reflection across $y = 3$



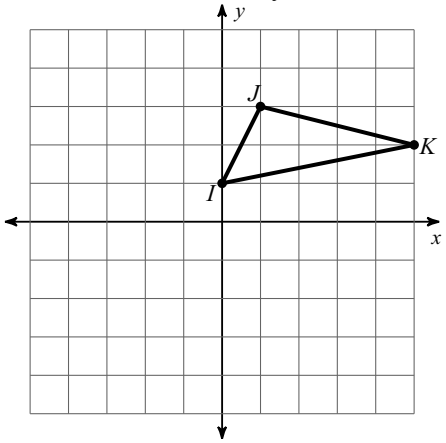
16) translation: 7 units down



17) reflection across the x-axis

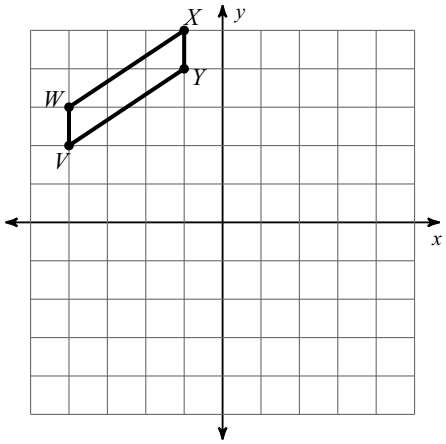


18) reflection across the y-axis

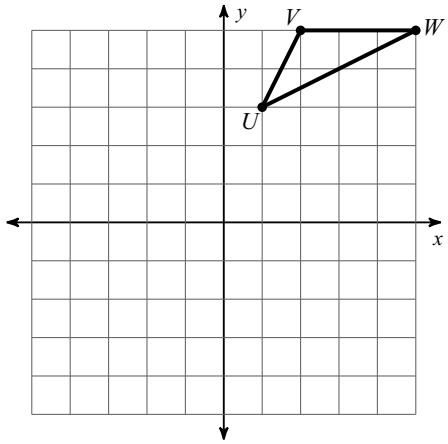


Graph the image of the figure using the transformation given.

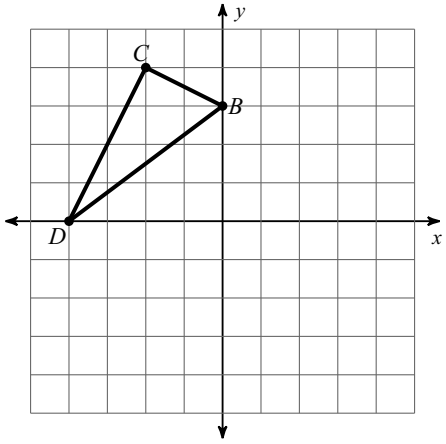
19) reflection across $y = 1$



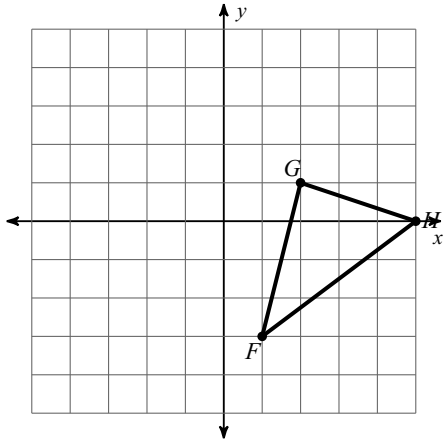
20) reflection across $y = 1$



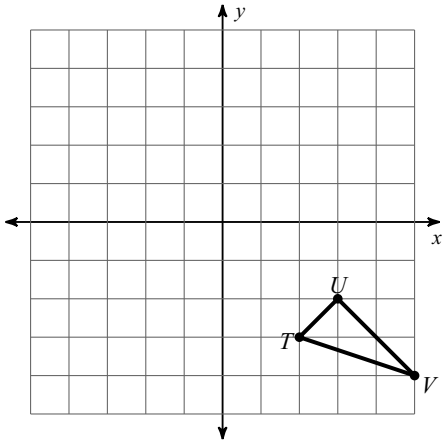
21) reflection across $x = -2$



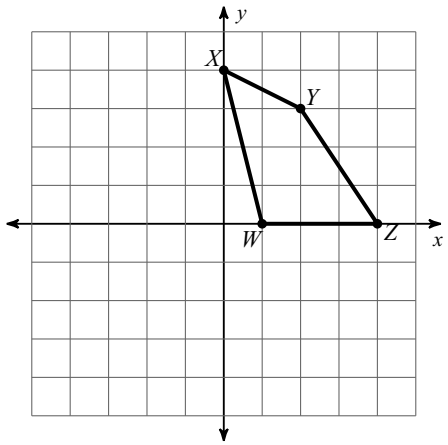
22) reflection across $x = 3$



23) reflection across $x = 2$

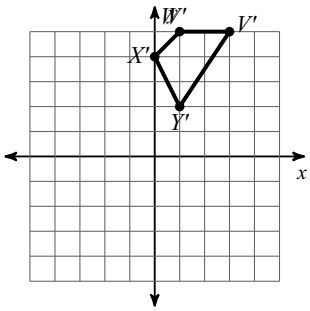


24) reflection across the x-axis

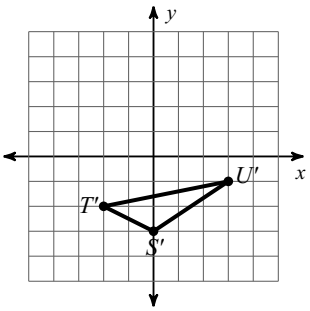


Answers to Packet #3 D6 (ID: 1)

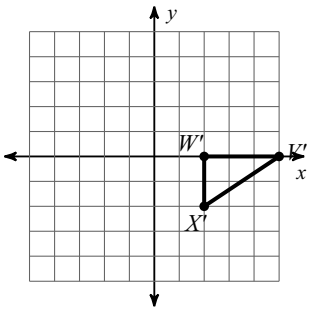
1)



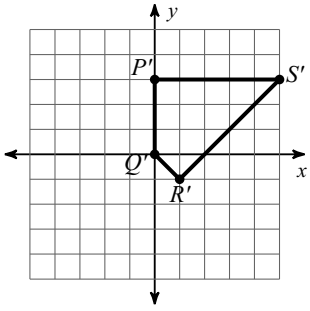
2)



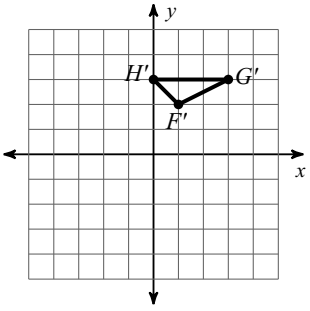
3)



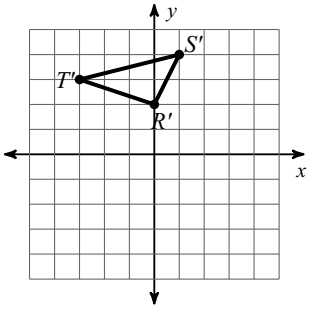
4)



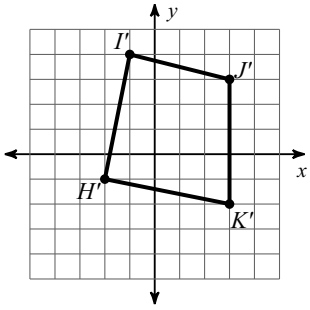
5)



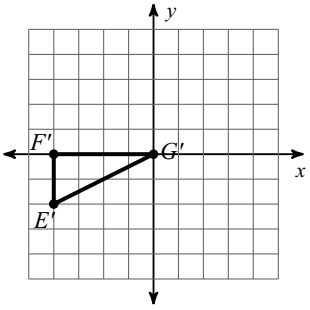
6)



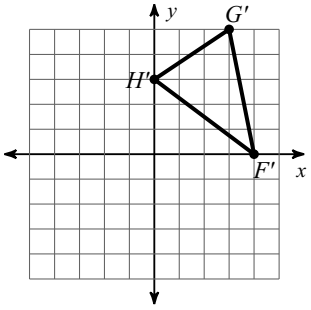
7)



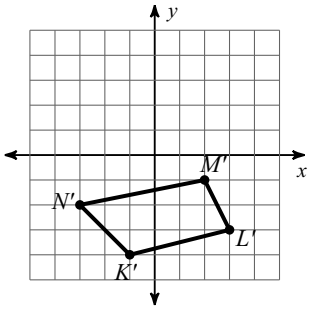
8)



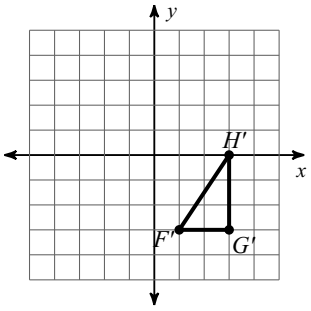
9)



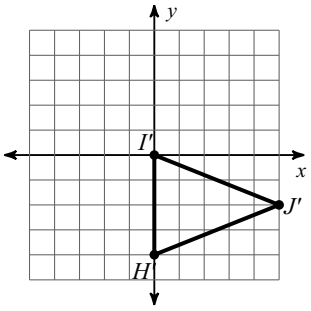
10)



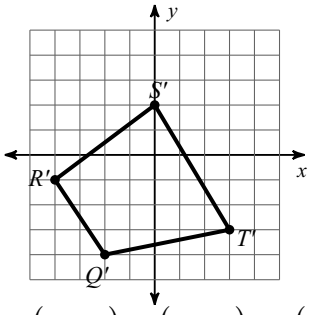
11)



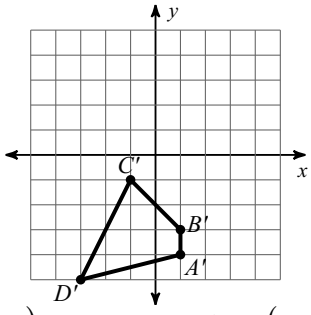
12)



13)



14)



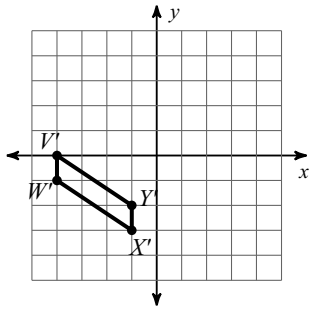
15) $K'(-5, 3), L'(-2, 1), M'(-1, 3), J'(-5, 4)$

16) $A'(1, -5), B'(1, -3), C'(4, -3), D'(5, -4)$

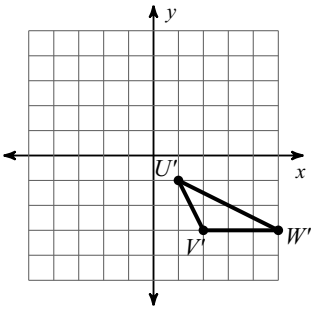
17) $K'(0, 1), J'(1, 2), I'(1, 5), L'(-3, 5)$

18) $J'(-1, 3), K'(-5, 2), I'(0, 1)$

19)



20)



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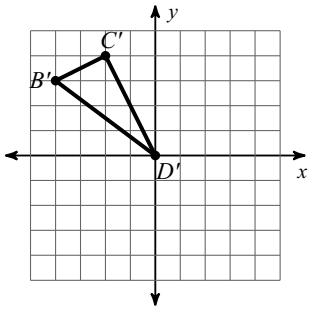

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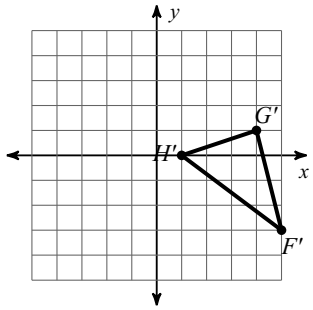

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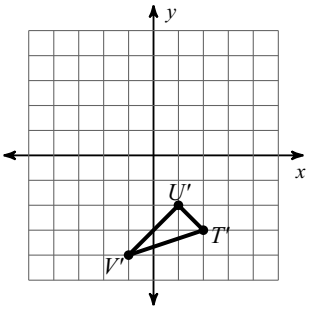

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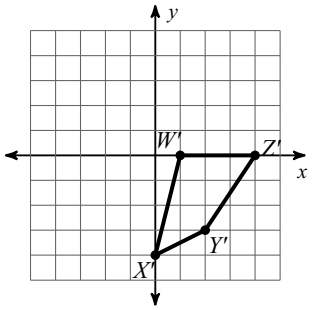


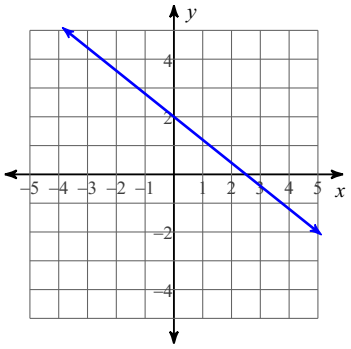
Intro to Geometry Name_____ ID: 1

Packet #3 D7

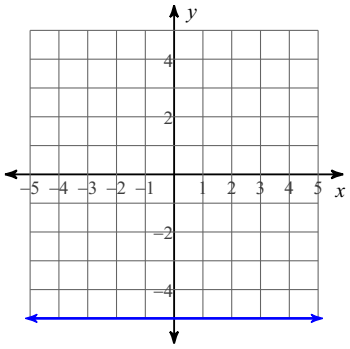
Date_____ Period____

Write the slope-intercept form of the equation of each line.

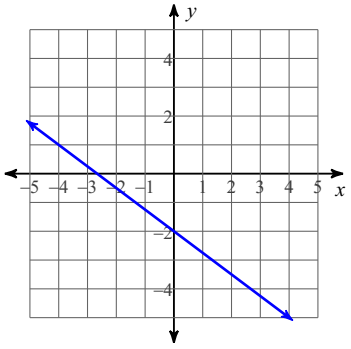
1)



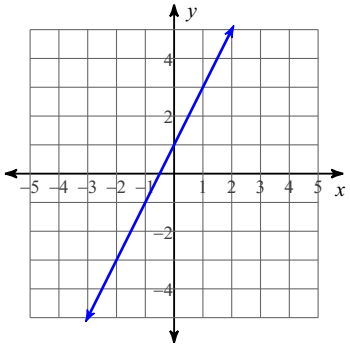
2)



3)



4)



Write the slope-intercept form of the equation of each line given the slope and y-intercept.

5) Slope = 1, y-intercept = –2

6) Slope = $-\frac{5}{3}$, y-intercept = 0

7) Slope = –2, y-intercept = 3

8) Slope = 0, y-intercept = 0

Write the slope-intercept form of the equation of the line through the given point with the given slope.

9) through: $(4, -5)$, slope = $-\frac{7}{4}$

10) through: $(3, -4)$, slope = $-\frac{9}{4}$

11) through: $(2, 5)$, slope = 3

12) through: $(-5, -2)$, slope = $-\frac{2}{5}$

Write the slope-intercept form of the equation of the line through the given points.

13) through: $(4, -2)$ and $(0, -4)$

14) through: $(2, -5)$ and $(-1, -5)$

15) through: $(-2, 1)$ and $(-5, 3)$

16) through: $(3, 3)$ and $(-3, -1)$

Write the slope-intercept form of the equation of the line described.

17) through: $(1, 3)$, parallel to $y = 6x + 4$

18) through: $(-2, 3)$, parallel to $y = -\frac{5}{2}x + 4$

19) through: $(4, -5)$, parallel to $y = -\frac{1}{2}x + 1$

20) through: $(-1, 1)$, parallel to $y = 4x - 5$

21) through: $(2, -5)$, perp. to $y = \frac{1}{2}x - 4$

22) through: $(3, -2)$, perp. to $y = -3x + 4$

23) through: $(-3, 3)$, perp. to $y = \frac{2}{3}x + 4$

24) through: $(4, 2)$, perp. to $y = -\frac{2}{3}x - 2$

Answers to Packet #3 D7 (ID: 1)

1) $y = -\frac{4}{5}x + 2$

2) $y = -5$

3) $y = -\frac{3}{4}x - 2$

4) $y = 2x + 1$

5) $y = x - 2$

6) $y = -\frac{5}{3}x$

7) $y = -2x + 3$

8) $y = 0$

9) $y = -\frac{7}{4}x + 2$

10) $y = -\frac{9}{4}x + \frac{11}{4}$

11) $y = 3x - 1$

12) $y = -\frac{2}{5}x - 4$

13) $y = \frac{1}{2}x - 4$

14) $y = -5$

15) $y = -\frac{2}{3}x - \frac{1}{3}$

16) $y = \frac{2}{3}x + 1$

17) $y = 6x - 3$

18) $y = -\frac{5}{2}x - 2$

19) $y = -\frac{1}{2}x - 3$

20) $y = 4x + 5$

21) $y = -2x - 1$

22) $y = \frac{1}{3}x - 3$

23) $y = -\frac{3}{2}x - \frac{3}{2}$

24) $y = \frac{3}{2}x - 4$

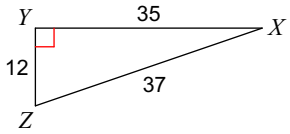
Intro to Geometry Name_____ ID: 1

Packet #3 D8

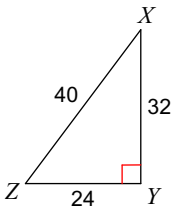
Date_____ Period____

Find the value of each trigonometric ratio. Just write the fraction using SOH-CAH-TOA

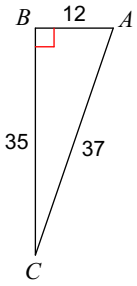
1) tan Z



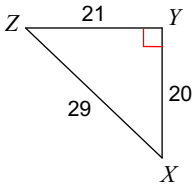
2) sin Z



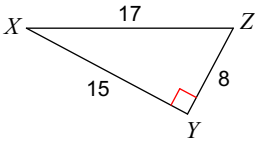
3) cos C



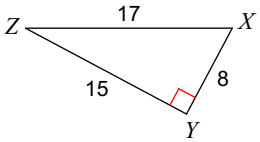
4) sin Z



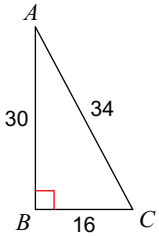
5) sin X



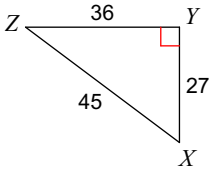
6) sin X



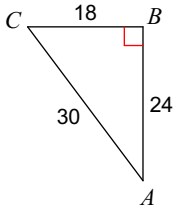
7) sin A



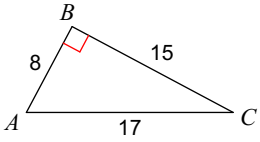
8) tan Z



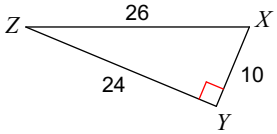
9) tan C



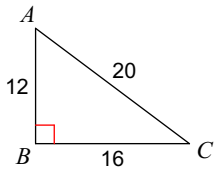
10) tan A



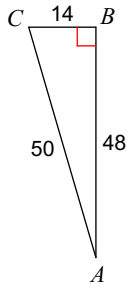
11) sin Z



12) cos C

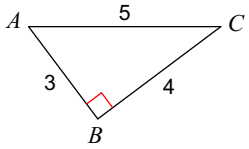


13) sin A

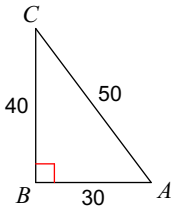


14) sin X

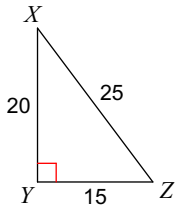
15) cos C



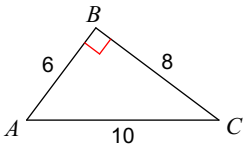
16) cos C



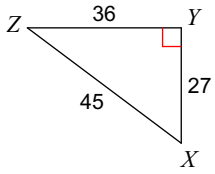
17) tan Z



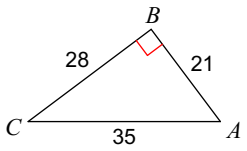
18) cos A



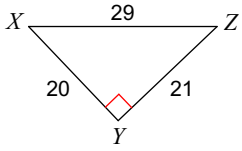
19) sin Z



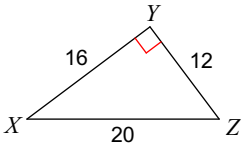
20) tan C



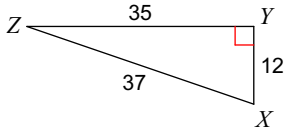
21) sin X



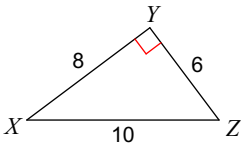
22) sin Z



23) sin Z



24) sin X



Answers to Packet #3 D8 (ID: 1)

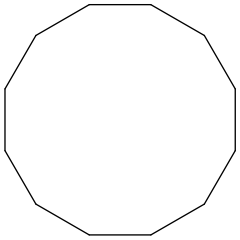
1) $\frac{35}{12}$
2) $\frac{4}{5}$
3) $\frac{35}{37}$
4) $\frac{20}{29}$
5) $\frac{8}{17}$
6) $\frac{15}{17}$
7) $\frac{8}{17}$
8) $\frac{3}{4}$
9) $\frac{4}{3}$
10) $\frac{15}{8}$
11) $\frac{5}{13}$
12) $\frac{4}{5}$
13) $\frac{7}{25}$
14) $\frac{9}{41}$
15) $\frac{4}{5}$
16) $\frac{4}{5}$
17) $\frac{4}{3}$
18) $\frac{3}{5}$
19) $\frac{3}{5}$
20) $\frac{3}{4}$
21) $\frac{21}{29}$
22) $\frac{4}{5}$
23) $\frac{12}{37}$
24) $\frac{3}{5}$

Packet #3 D9

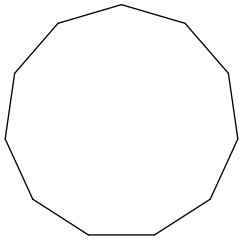
Date_____ Period____

Find the interior angle sum for each polygon. Round your answer to the nearest tenth if necessary.

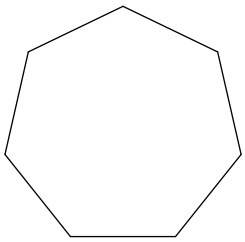
1)



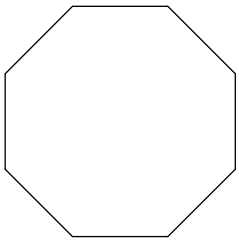
2)



3)

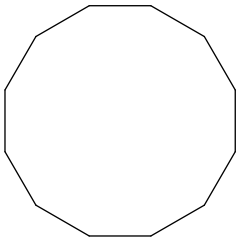


4)

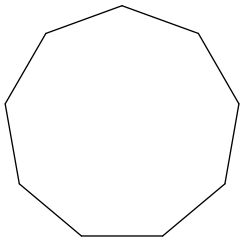


Find the measure of one interior angle in each regular polygon. Round your answer to the nearest tenth if necessary.

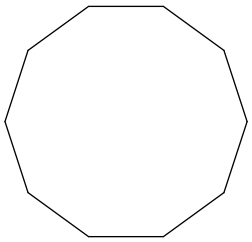
5)



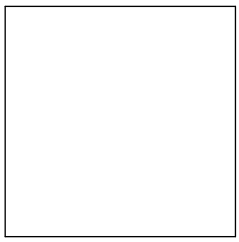
6)



7)

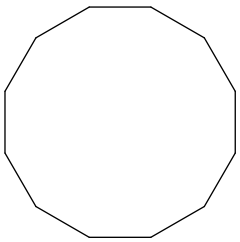


8)

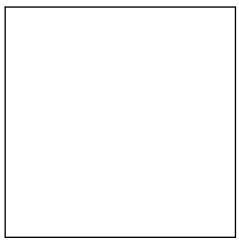


Find the measure of one exterior angle in each regular polygon. Round your answer to the nearest tenth if necessary.

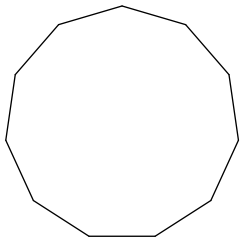
9)



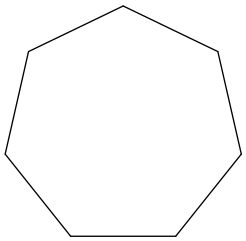
10)



11)

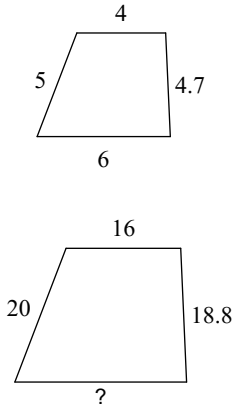


12)



The polygons in each pair are similar. Find the missing side length.

13)



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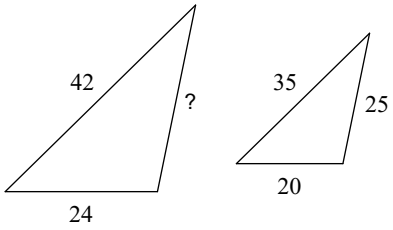

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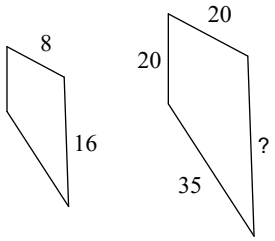

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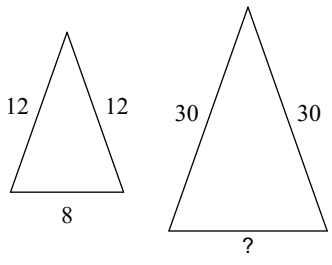

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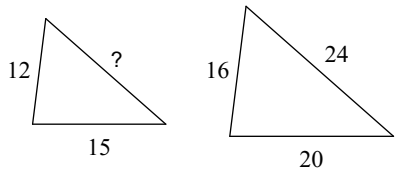
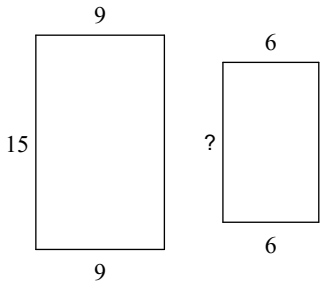
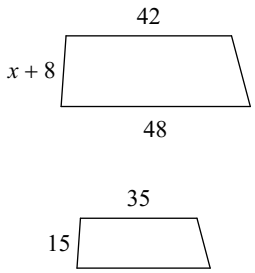


18)

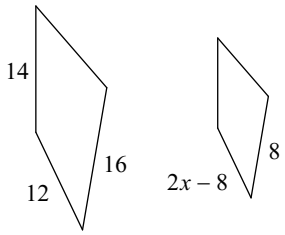


Solve for *x*. The polygons in each pair are similar.

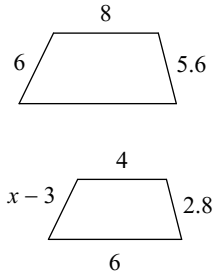
19)



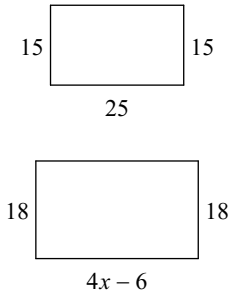
20)



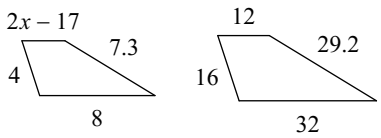
21)



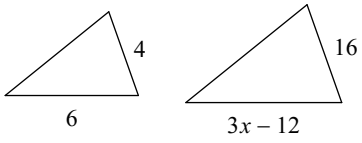
22)



23)



24)



Answers to Packet #3 D9 (ID: 1)

1) 1800°	2) 1620°	3) 900°	4) 1080°
5) 150°	6) 140°	7) 144°	8) 90°
9) 30°	10) 90°	11) 32.7°	12) 51.4°
13) 24	14) 30	15) 40	16) 20
17) 18	18) 10	19) 10	20) 7
21) 6	22) 9	23) 10	24) 12

Packet #3 D10

Date_____ Period____

State if the three numbers can be the measures of the sides of a triangle.

1) 7, 15, 12

2) 12, 22, 9

3) 6, 9, 7

4) 21, 12, 8

5) 7, 7, 4

6) 9, 6, 12

Solve each proportion.

7) $\frac{x-10}{9}=\frac{x}{5}$

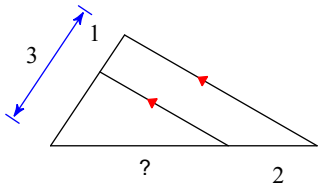
8) $\frac{m+1}{10}=\frac{m}{8}$

9) $\frac{x}{4}=\frac{x+9}{3}$

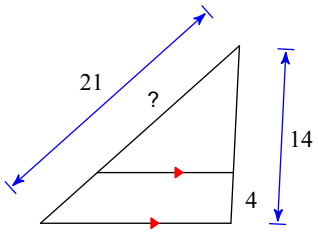
10) $\frac{k}{2}=\frac{k+3}{7}$

Find the missing length indicated.

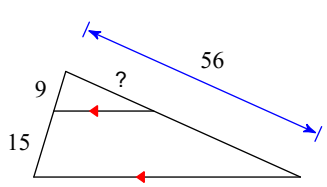
11)



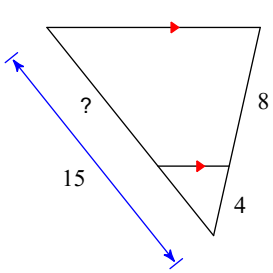
12)



13)

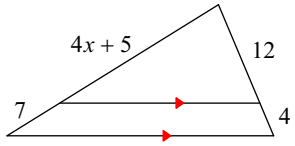


14)

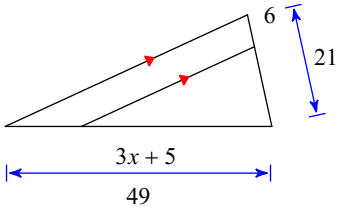


Solve for *x*.

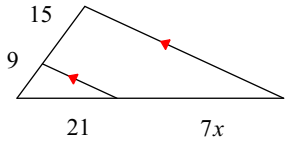
15)



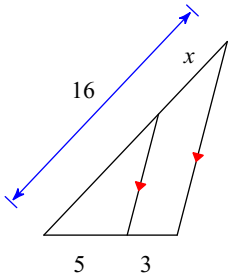
16)



17)

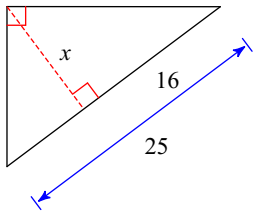


18)

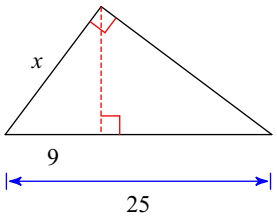


Find the missing length indicated.

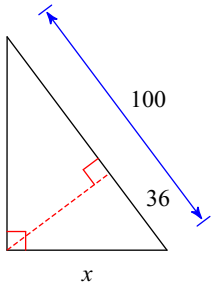
19)



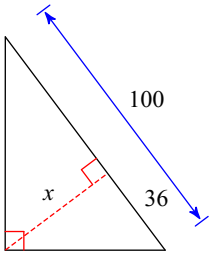
20)



21)



22)



Answers to Packet #3 D10 (ID: 1)

1) Yes
2) No
3) Yes
4) No
5) Yes
6) Yes
7) $\{-12.5\}$
8) $\{4\}$
9) $\{-36\}$
10) $\{1.2\}$
11) 4
12) 15
13) 21
14) 10
15) 4
16) 10
17) 5
18) 6
19) 12
20) 15
21) 60
22) 48