

Ridgeway High School Summer Assignment 2015

Solve each equation. You Must Show Your Work To Receive Credit!

1) $1 - 7x = -6 - 8x$

2) $x + 1 = -5 + x + 3x$

3) $6x + 3 = -9 - 6x$

4) $-3 - 8x = 7 - 6x$

5) $5a + 2a = 4 + 8a$

6) $-35 - p = -6 - 3(p + 7)$

7) $3(1 - 8x) = 8x + 35$

8) $-7 - 7r = 7(5 - 2r)$

$$9) 7(4m + 8) = -32 + 6m$$

$$10) 2(1 + 6p) = 13 + p$$

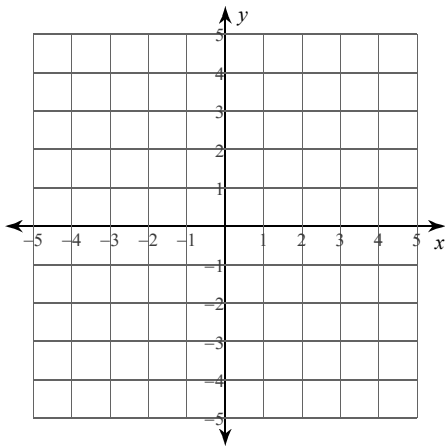
Solve each system by substitution. You Must Show Your Work To Receive Credit!

$$11) \begin{aligned} y &= -6 \\ -4x - y &= -2 \end{aligned}$$

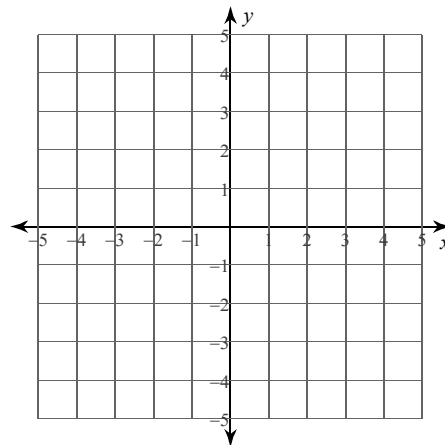
$$12) \begin{aligned} -2x - y &= 11 \\ 3x - 4y &= -22 \end{aligned}$$

Solve each system by graphing.

$$13) \begin{aligned} y &= -\frac{3}{2}x - 4 \\ y &= \frac{3}{2}x + 2 \end{aligned}$$



$$14) \begin{aligned} 6x + y &= 3 \\ y &= -3 \end{aligned}$$



Solve each system by elimination. You Must Show Your Work To Receive Credit!

$$15) \begin{cases} 10x - 16y = -20 \\ x - 8y = 30 \end{cases}$$

$$16) \begin{cases} -6x - 3y = 15 \\ 9x + 10y = 27 \end{cases}$$

Factor each completely. You Must Show Your Work To Receive Credit!

$$17) b^2 - 15b + 56$$

$$18) v^2 + 13v + 30$$

$$19) 8a^2 - 61a + 35$$

$$20) 9b^2 + 24b + 16$$

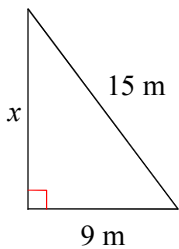
Solve each equation by factoring. You Must Show Your Work To Receive Credit!

$$21) x^2 + 7x - 8 = 0$$

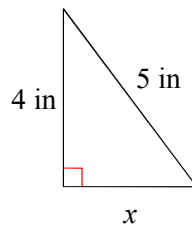
$$22) n^2 - 2n - 15 = 0$$

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

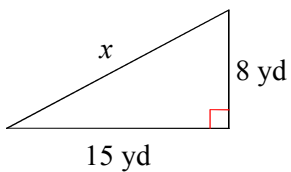
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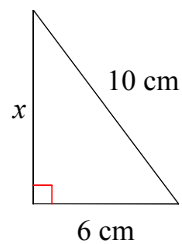
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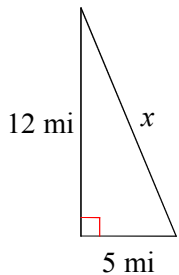
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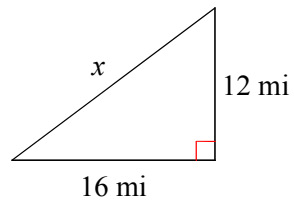
26)



27)



28)



Find the distance between each pair of points. You Must Show Your Work To Receive Credit!

29) $(2, 0), (-8, 0)$

30) $(2, 2), (-3, 5)$

31) $(-8, 5), (-8, -8)$

32) $(-6, 8), (8, 8)$

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

33) $(-4, 8), (2, -8)$

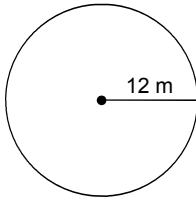
34) $(-8, -6), (4, 4)$

35) $(9, 9), (1, -3)$

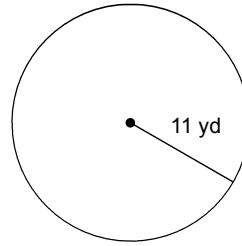
36) $(9, -2), (-2, 8)$

Find the area of each. Use your calculator's value of π . Round your answer to the nearest tenth.

37)

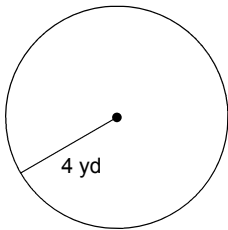


38)

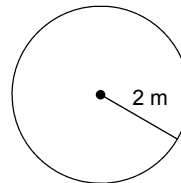


Find the circumference of each circle. Use your calculator's value of π . Round your answer to the nearest tenth.

39)

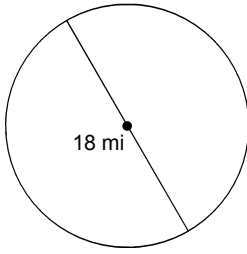


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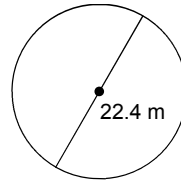


Find the area of each. Use your calculator's value of π . Round your answer to the nearest tenth.

41)

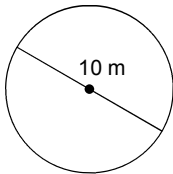


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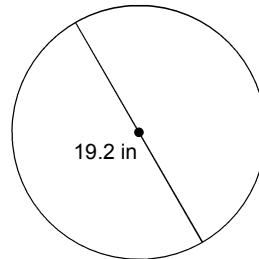


Find the circumference of each circle. Use your calculator's value of π . Round your answer to the nearest tenth.

43)

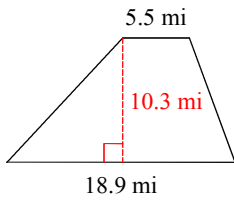


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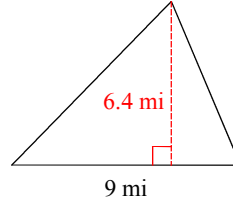


Find the area of each (Triangle, Rectangle, Square, Trapezoid). You Must Show Your Work To Receive Credit!

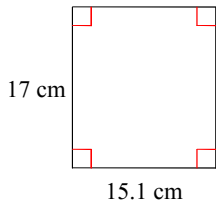
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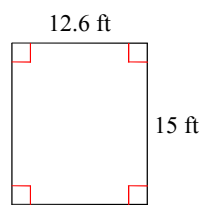
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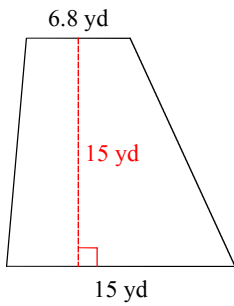
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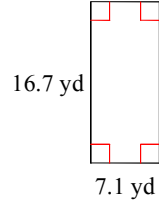
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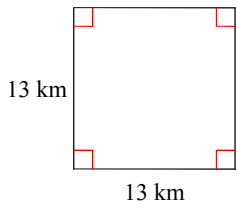
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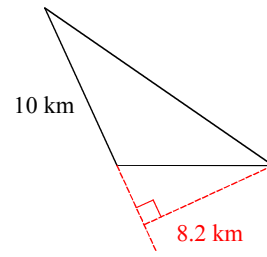
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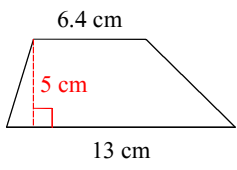
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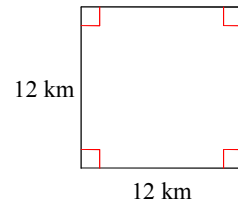
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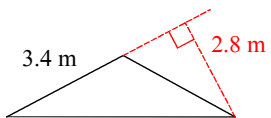
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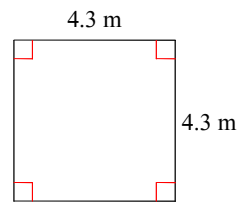
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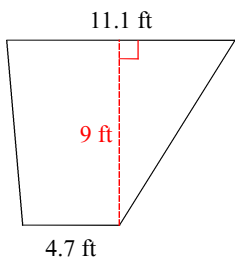
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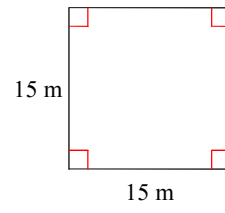
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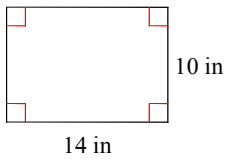
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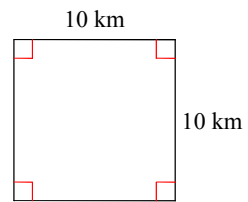
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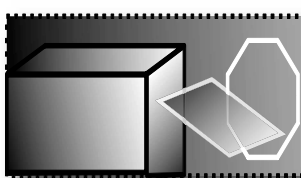


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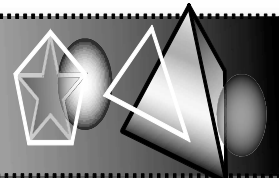


60)





Geometry Warm-ups: Ordered Pairs



Ordered Pairs 1

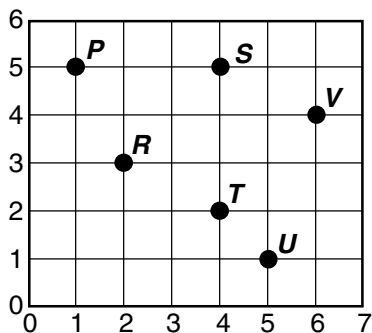
Write the letter for each ordered pair.

A. (2, 3) _____

B. (4, 5) _____

C. (6, 4) _____

D. (1, 5) _____



Ordered Pairs 2

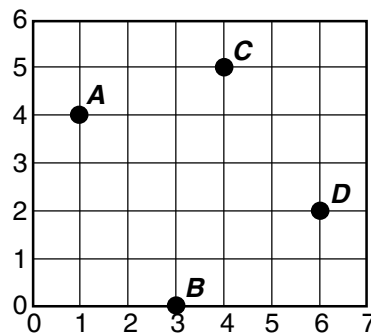
Write the ordered pair for each point.

A _____

B _____

C _____

D _____

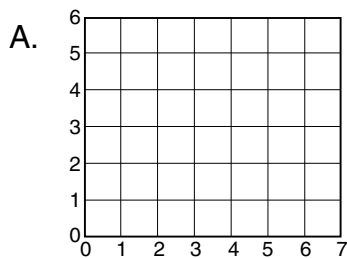


Ordered Pairs 3

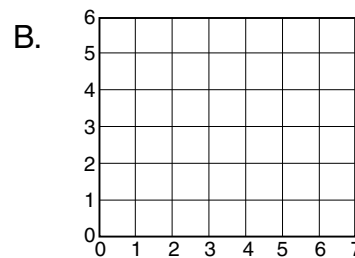
Plot each point. Connect the points in order. Write the name of the polygon that is formed.

A. Polygon _____

B. Polygon _____



(1, 1), (3, 5), (6, 1)



(1, 2), (1, 5), (6, 5), (6, 2)

Ordered Pairs 4

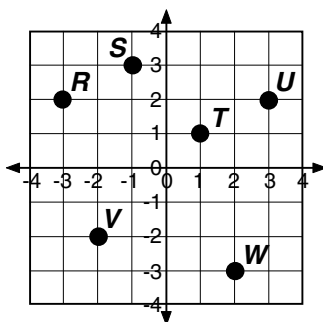
Write the letter for each ordered pair.

A. (2, -3) _____

B. (-1, 3) _____

C. (-2, -2) _____

D. (3, 2) _____



Ordered Pairs 5

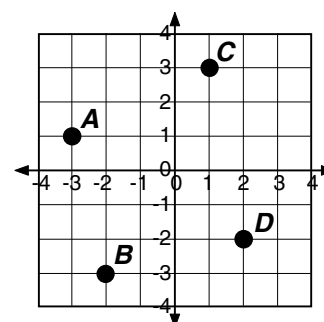
Write the ordered pair for each point.

A _____

B _____

C _____

D _____

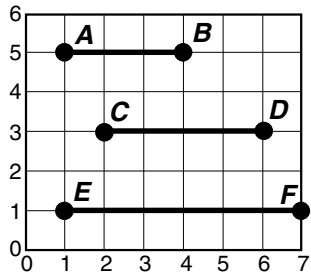


Geometry Warm-ups: Lengths on the Coordinate Plane

Lengths on the Coordinate Plane 1

To find the length of a horizontal line segment, find the difference of the x-coordinates.

\overline{AB} is _____ units long.
 $A(1, 5)$ $B(4, 5)$
 $4 - 1 = 3$

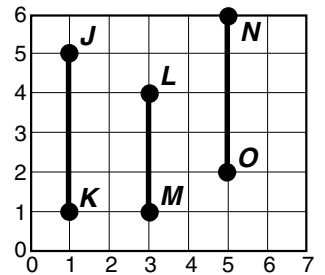


\overline{CD} is _____ units long.
 \overline{EF} is _____ units long.

Lengths on the Coordinate Plane 2

To find the length of a vertical line segment, find the difference of the y-coordinates.

\overline{JK} is _____ units long.
 $J(1, 5)$ $K(1, 1)$
 $5 - 1 = 4$



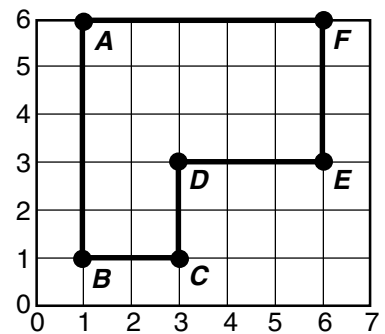
\overline{LM} is _____ units long.
 \overline{NO} is _____ units long.

Lengths on the Coordinate Plane 3

Write the coordinates (ordered pairs) for each point. Then find the lengths of the segments.

A _____ B _____ C _____
 D _____ E _____ F _____

\overline{AB} _____ units \overline{CD} _____ units \overline{DE} _____ units
 \overline{AF} _____ units \overline{EF} _____ units \overline{BC} _____ units



Lengths on the Coordinate Plane 4

- How long is the horizontal line segment between points $(0, 5)$ and $(4, 5)$? _____ units
- How long is the vertical line segment between points $(4, 8)$ and $(4, 2)$? _____ units
- How long is the horizontal line segment between points $(3, 6)$ and $(10, 6)$? _____ units

Lengths on the Coordinate Plane 5

A rectangle is 7 units long and 3 units wide. Two of the corners are at $(10, 2)$ and $(3, 2)$. What is the location of the other two corners?

On another sheet of paper, draw a grid and plot the points to help you.