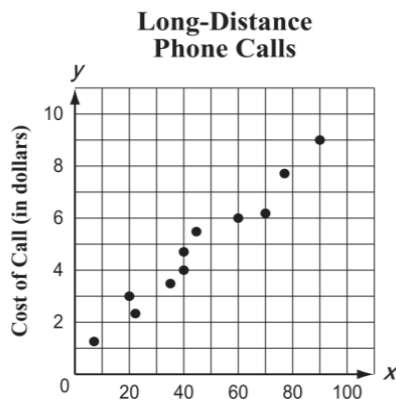


Name: _____

CBA Review

The scatterplot below shows the relationship between the length and cost of a long-distance phone call.

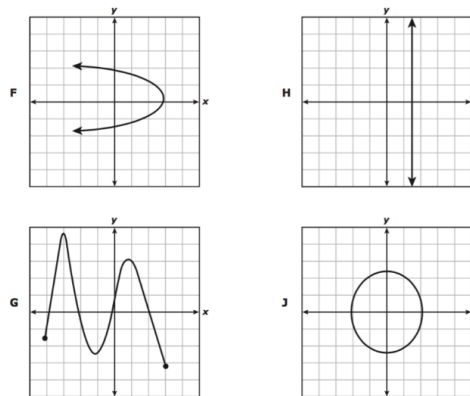


Based on the line of best fit, what would be the cost of a 50-minute phone call? _____

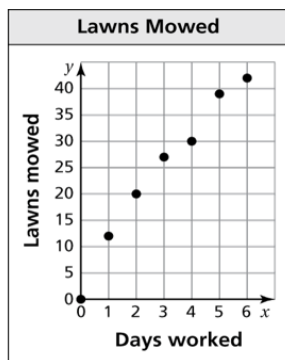
Which set of ordered pairs represents y as a function of x ?

- A) $\{(0, 0), (-1, 2), (-1, -2), (-2, 4), (-2, -4)\}$
- B) $\{(0, 0), (1, 1), (2, 4), (3, 9), (3, 16)\}$
- C) $\{(0, 0), (0, 1), (0, 2), (0, -1), (0, -2)\}$
- D) $\{(0, 0), (-1, -0.5), (-2, -1), (-3, -1.5), (-4, -2)\}$

Which graph does NOT represent a function?



Draw a trend line for the following data.



Predict how long would it take to mow 45 lawns.

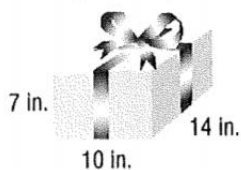
Which representation shows y as a function of x ?

- A)
- B)
- C)

x	y
-1	0
-1	5
-1	10
-1	15
- D)

x	y
-4	-8
0	3
1	2
-4	10

A birthday gift is placed in the box below.



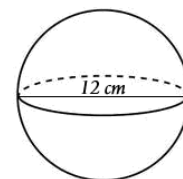
What is the value of P for the box? _____

What is the height of the prism? _____

What is the formula for lateral surface area? _____

What is the value of the radius for the sphere? _____

What formula would you use to find the volume of the sphere?

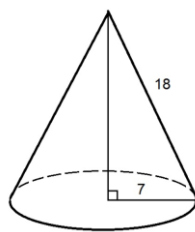


A cylindrical trash can has a height of 7 feet and a diameter of 4 feet.

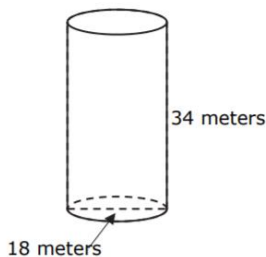
What formula would you use to find the volume?

Now write out the formula for the volume using the values for this trash can. _____

Using the values for this cone, write out the formula for finding the volume of the cone. _____

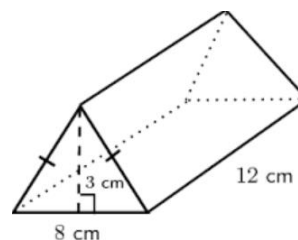


A cylinder and its dimensions are shown in the diagram below. (round to the nearest hundredths place)



What is the total surface area of this cylinder in square meters? Round to the nearest hundredth.

A triangular prism and its dimensions are shown in the diagram below.



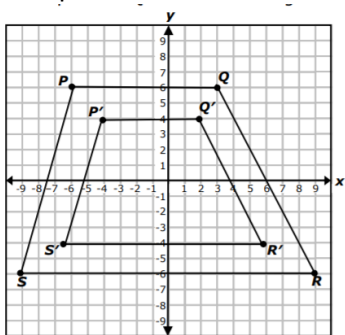
Find the value of P for this triangular prism. _____

Find the value of h for this triangular prism. _____

Find the value of B for this triangular prism. _____

What is the formula for total surface area? _____

Trapezoid PQRS was dilated with the origin as the center of dilation to create trapezoid P'Q'R'S'.



Which rule best represents the dilation that was applied to trapezoid PQRS to create P'Q'R'S'?

A.

$$(x, y) \rightarrow \left(\frac{1}{2}x, \frac{1}{2}y\right)$$

B.

$$(x, y) \rightarrow \left(\frac{3}{4}x, \frac{3}{4}y\right)$$

C.

$$(x, y) \rightarrow \left(\frac{3}{2}x, \frac{3}{2}y\right)$$

D.

$$(x, y) \rightarrow \left(\frac{2}{3}x, \frac{2}{3}y\right)$$

A rectangle is dilated by a scale factor of $\frac{1}{3}$. Use an algebraic representation to describe the effect of the scale factor on the coordinates of the original rectangle.

$$(x, y) \rightarrow (\text{_____}, \text{_____})$$