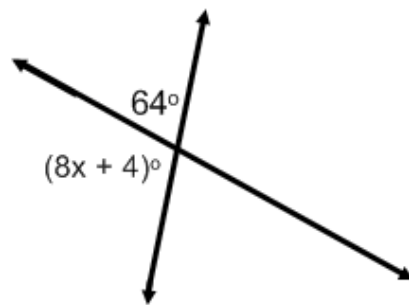


In the figure, what is the value of x ?



15

14

8.5

7.5

State if the number is rational, irrational or not a real number

$$\frac{\sqrt{49}}{\sqrt{9}}$$

Solve for b : $3b^3 = 81$

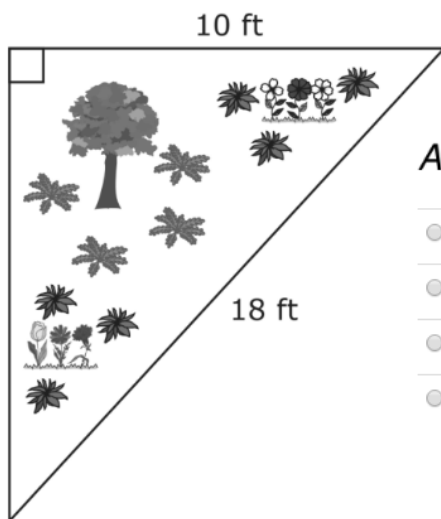
$b = 9$

$b = 6.2$

$b = 3$

$b = 1.4$

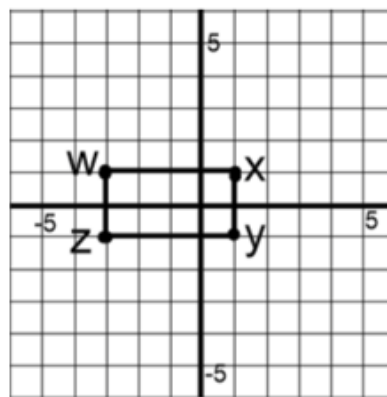
Molly wants to put a fence around an area. The fence will follow the diagram of the triangle shown below.



About how much fencing does Molly need?

- 28 ft
- 43 ft
- 38 ft
- 49 ft

Rectangle $WXYZ$ will be dilated by a scale factor of 2, creating $W'X'Y'Z'$.



- 4 units
- 6 units
- 12 units
- 24 units

What will the perimeter of $W'X'Y'Z'$ be?

A cylinder-shaped container is used to store water. The container has a height of 6 feet and a diameter of 3 feet. About how much water is in the container when it is $\frac{1}{4}$ full?

Which function is nonlinear?

$y = \frac{1}{2}x - 7$

$y = 2x(x - 4)$

$y = -x$

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

A corporation earned a profit of $\$2.5 \times 10^4$ for 1×10^3 days in a row. What was the corporation's total profit during this time period?

Josh is 8 years younger than twice Ella's age. Josh is 18 years old. How old is Ella?

8

10

13

18

Tom is filling a spherical beach ball with air for the pool party. The ball has a radius of 8 inches. What is the approximate amount of air the ball will hold?

33 in^3

267 in^3

$1,608 \text{ in}^3$

$2,144 \text{ in}^3$

A total of 24 students are in Allison's class. The number of girls in the class is 3 more than twice the number of boys. How many girls are there in her class?

9

15

7

17

Alice compared the graphs of two functions.

- The first function was $y = 3x + 4$.
- The second function fits the values in the table shown.

x	y
2	17
5	32
8	47
11	62

1

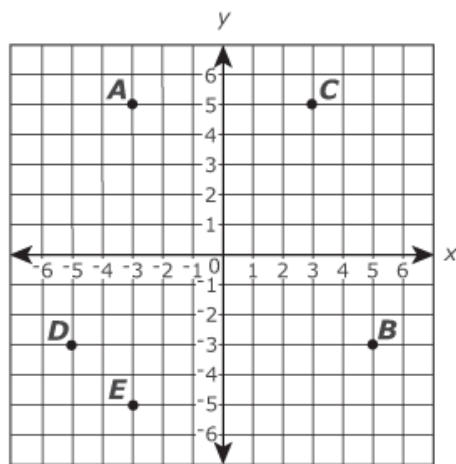
2

3

4

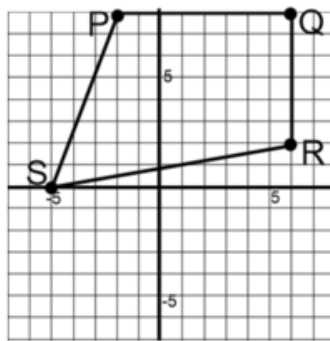
What is the distance between the y -intercepts of the two functions?

The relation shown is not a function.



Which point should be removed to make the relation a function?

Quadrilateral PQRS is graphed in the coordinate plane. If the quadrilateral is reflected across the x-axis, what will be the new coordinates of P'?



- (2, 8)
- (2, -8)
- (-2, 8)
- (-2, -8)

What is the solution to $\frac{5 \times 10^3}{2.5 \times 10^{-4}}$?

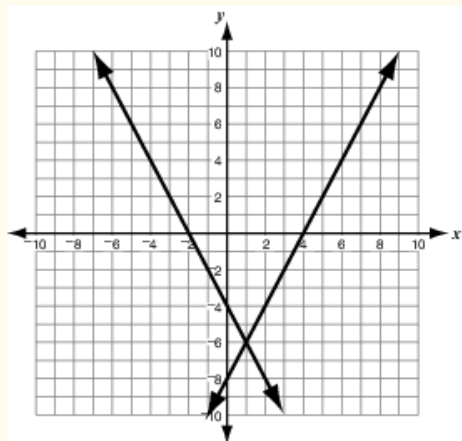
1.25×10^{-1}

1.25×10^7

2×10^7

2×10^{-1}

What is the solution to the system of equations shown in the graph below?



- A $(-6, 1)$
- B $(-2, 4)$
- C $(1, -6)$
- D $(-4, -8)$

A system of equations is shown below.

$$2x + 4y = 0$$

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

What is the value of x ?

-3

-1.5

1.5

3