

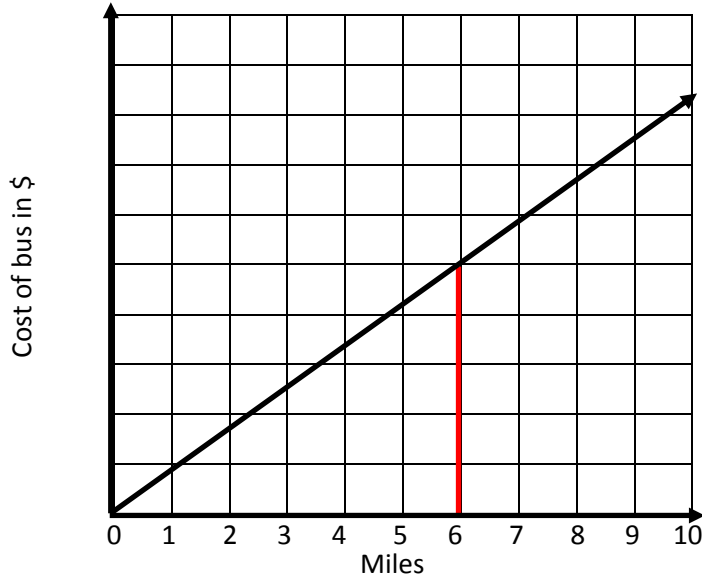
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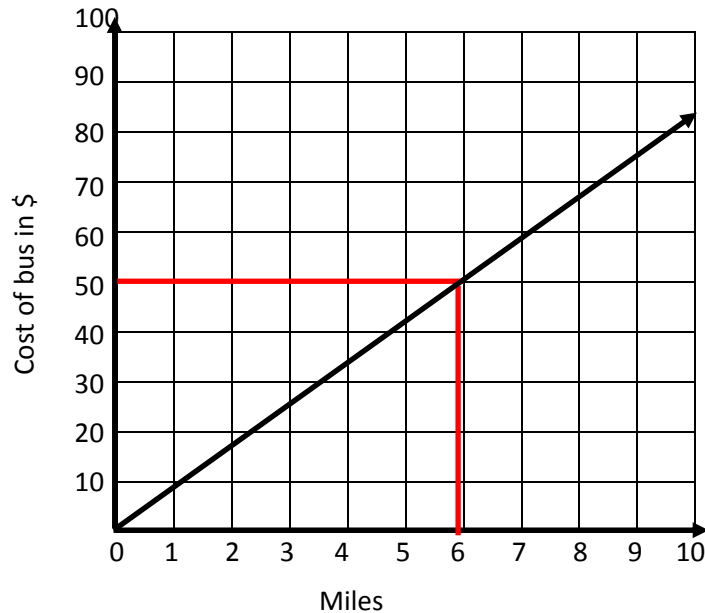
Functions as Inputs and Outputs - Guided Lesson Explanation

Explanation#1

Find 6 miles on the x -axis. Move up until you intersect the graph.



Now move left until you intersect the y -axis.



You intersect the y -axis at 50 dollars.

If Kenny goes 6 miles, he will spend \$50.



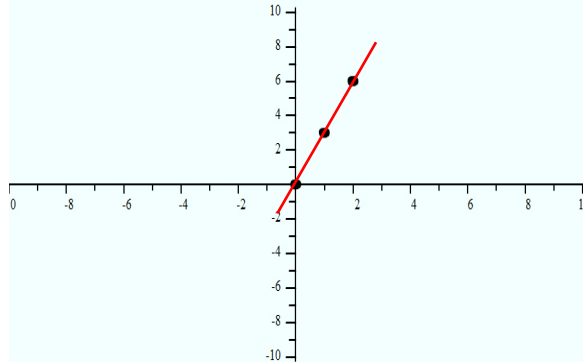
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Explanation#2

Step 1) Graph the points as they are listed (0,0) (1,3) (2,6)

Step 2) We can graph a function by plotting ordered pairs.



The graph of the function is the straight line connecting the pairs.

Explanation#3

The first x value in the table is -5.

Evaluate $f(x) = 2x + 5$ for $x = -5$

$$f(x) = 2x + 5$$

$$f(x) = 2(-5) + 5 \quad (x = -5 \text{ in the table})$$

$$f(x) = -10 + 5$$

When $x = -5$, So $f(x) = -5$

Complete the first row of the table.

The second x value in the table is -1.

Evaluate $f(x) = 2x + 5$ for $x = -1$

$$f(x) = 2x + 5$$

$$f(x) = 2(-1) + 5 \quad (x = -1 \text{ in the table})$$

$$f(x) = -2 + 5$$

When $x = -1$, So $f(x) = 3$

Complete the second row of the table.



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The second x value in the table is 1.

The third x value in the table is 1.

Evaluate $f(x) = 2x + 5$ for $x = 1$

$$f(x) = 2x + 5$$

$$f(x) = 2(1) + 5 \quad (x = 1 \text{ in the table})$$

$$f(x) = 2 + 5$$

When $x = 1$, So $f(x) = 7$

Complete the third row of the table.

The fourth x value in the table is 5.

Evaluate $f(x) = 2x + 5$ for $x = 4$

$$f(x) = 2x + 5$$

$$f(x) = 2(5) + 5 \quad (x = 5 \text{ in the table})$$

$$f(x) = 10 + 5$$

When $x = 5$, So $f(x) = 15$

