Graphing Linear Functions

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- A linear equation is an equation whose graph is a line. The solutions of a linear equation are the points that make up its graph.

Examples

- Use the table to make a graph and to write and equation.
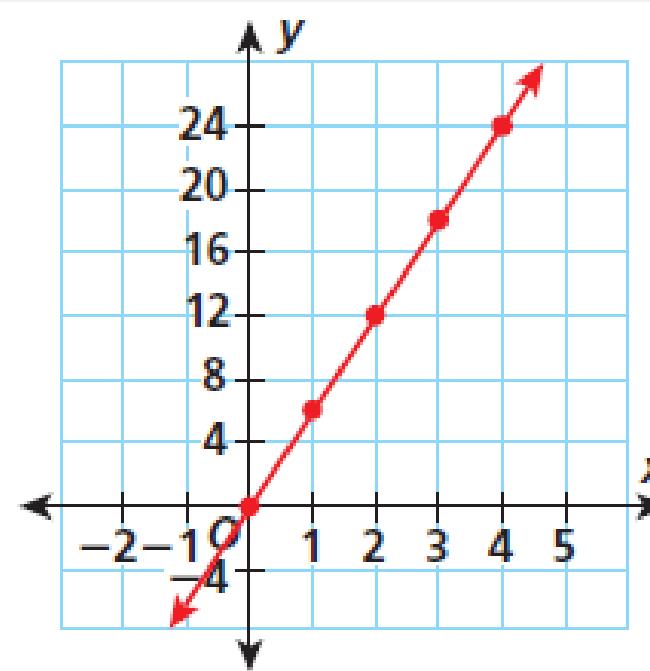
x	0	1	2	3	4
y	0	6	12	18	24

Examples

- Use the table to make a graph and to write and equation.

x	0	1	2	3	4
y	0	6	12	18	24

- $y = 6x$
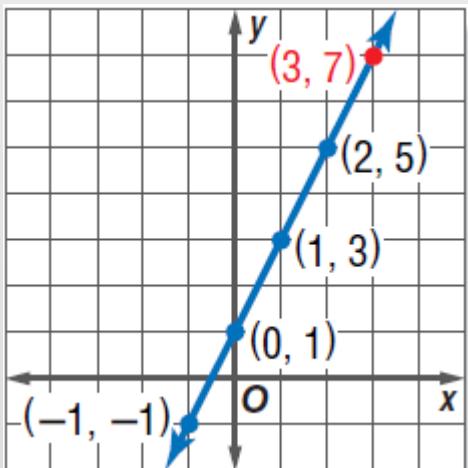
Examples

- Graph y = 2x + 1

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- Start by making a table.

- Then graph the points.

x	y
-1	5
0	1
1	3
2	5

Examples

- Use a graph of the function $f(x) = \frac{1}{3}x + 2$ to find the value of f(x) when x = 6. Check your answer.

- Locate 6 on the x axis.

- Move up from the 6 to the graph.

- Find the corresponding value of y.

- Use substitution to check.