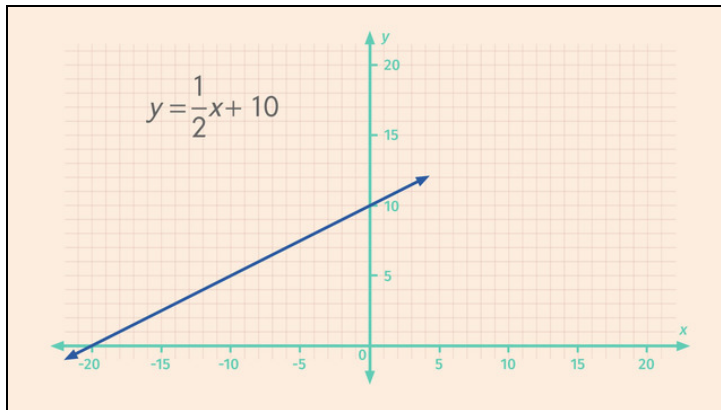


Worksheets to print out from [sofatutor.com](https://www.sofatutor.com)

The Graph of a Linear Equation in Two Variables Is a Line



- 1 Plot the ordered pairs on a coordinate plane.
- 2 Describe how to graph the line corresponding to the equation $y = \frac{1}{3}x + 12$
- 3 Decide which statements about linear equations are true.
- 4 Identify the x - and y -intercepts for each line.
- 5 Find the x - and y -intercepts for the given equations.
- 6 Graph the line for the equation $f(x) = \frac{20}{3}x + 20$.
- + with many hints, answer keys, and solution approaches for all tasks

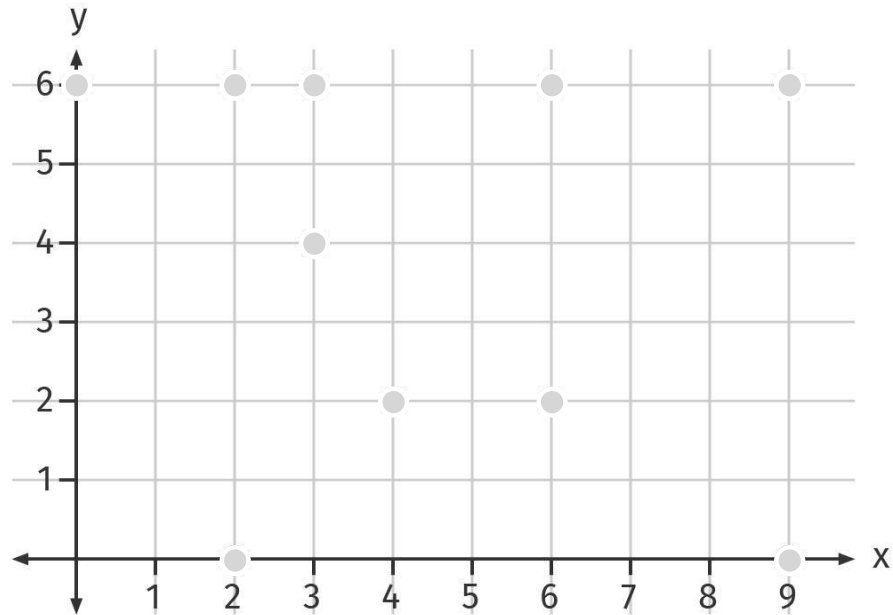


The complete package, including all tasks, hints, solutions, and solution approaches, is available to all subscribers of [sofatutor.com](https://www.sofatutor.com)

Plot the ordered pairs on a coordinate plane.

Highlight the given ordered pairs. Use different colors.

 (0,6)  (9,0)  (3,4)  (6,2)



Our hints for the tasks



Plot the ordered pairs on a coordinate plane.

1. Hint

Keep in mind that the first coordinate of an ordered pair is the x -coordinate, and the second one is the y -coordinate.

2. Hint

To draw a point proceed as follows:

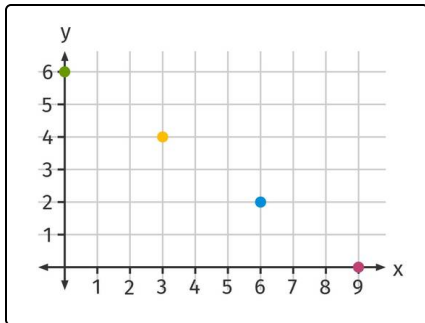
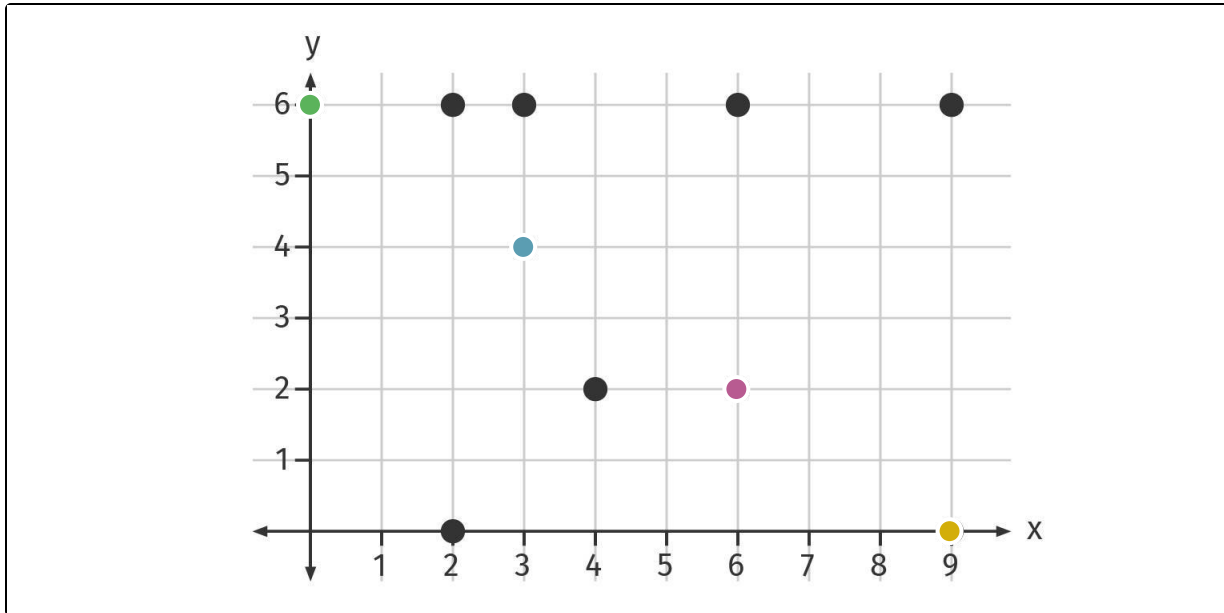
- Draw a line parallel to the y -axis, which intersects the given x -coordinate.
 - Draw a line parallel to the x -axis, which intersects the given y -coordinate.
 - The intersection of these two lines is the desired point.
-

Solutions and solution approaches for the tasks

1
from 6

Plot the ordered pairs on a coordinate plane.

 (0,6)  (9,0)  (3,4)  (6,2)



Here you see the correct ordered pairs. To plot them on the coordinate plane, first remember:

- The left-most coordinate is the x -coordinate.
- The right-most coordinate is the y -coordinate.

Draw any ordered pair or point as follows:

- Draw a line parallel to the y -axis, which intersects the given x -coordinate.

- Draw a line parallel to the x -axis, which intersects the given y -coordinate.
- The intersection of these two lines is the desired point.

So you get the points we want:

- (0,6) the green one on the y -axis
- (3,4) the blue one
- (6,2) the violet one
- (9,0) the yellow one on the x -axis

Can you recognize that all given points are lying on one line? The equation for this line is $y = -\frac{2}{3}x + 6$.