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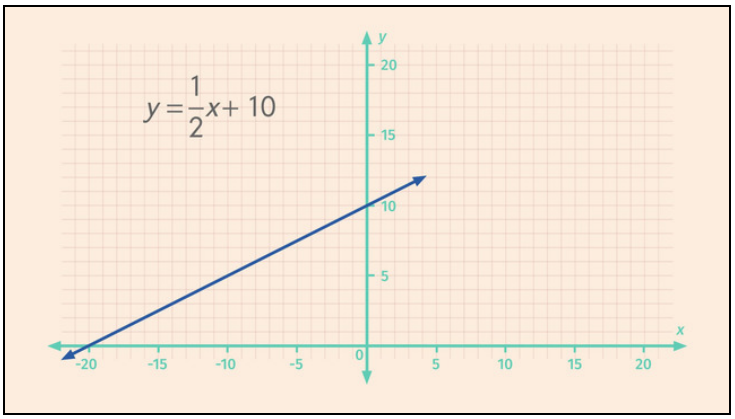
The Graph of a Linear Equation in Two Variables Is a Line



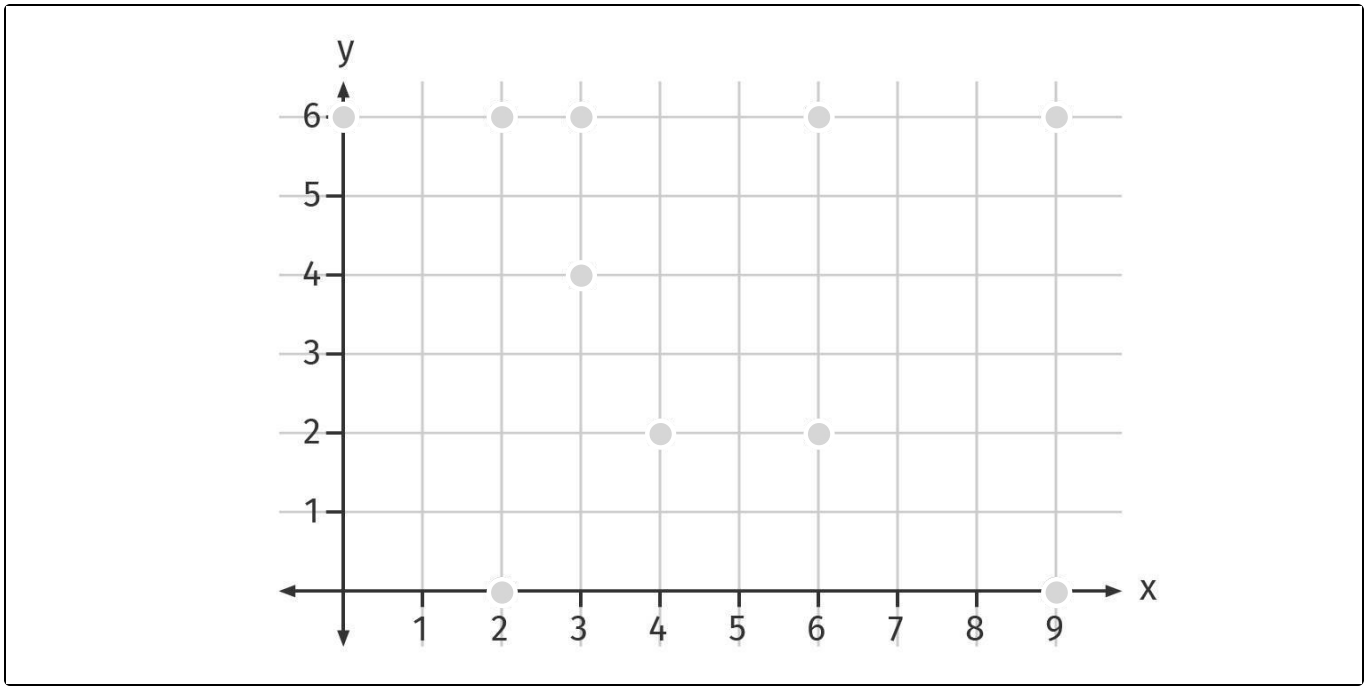
1. **Plot the ordered pairs on a coordinate plane.**
2. Describe how to graph the line corresponding to the equation $y = \frac{1}{3}x + 12$
3. Decide which statements about linear equations are true.
4. Identify the x- and y-intercepts for each line.
5. Find the x- and y-intercepts for the given equations.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

\+ with lots of tips, answer keys, and detailed answer explanations for all of the problems.

Plot the ordered pairs on a coordinate plane.

Highlight the given ordered pairs. Use different colors.

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



Hints for solving these problems

1 of 6

Plot the ordered pairs on a coordinate plane.

Hint #1

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

Hint #2

To draw a point proceed as follows:

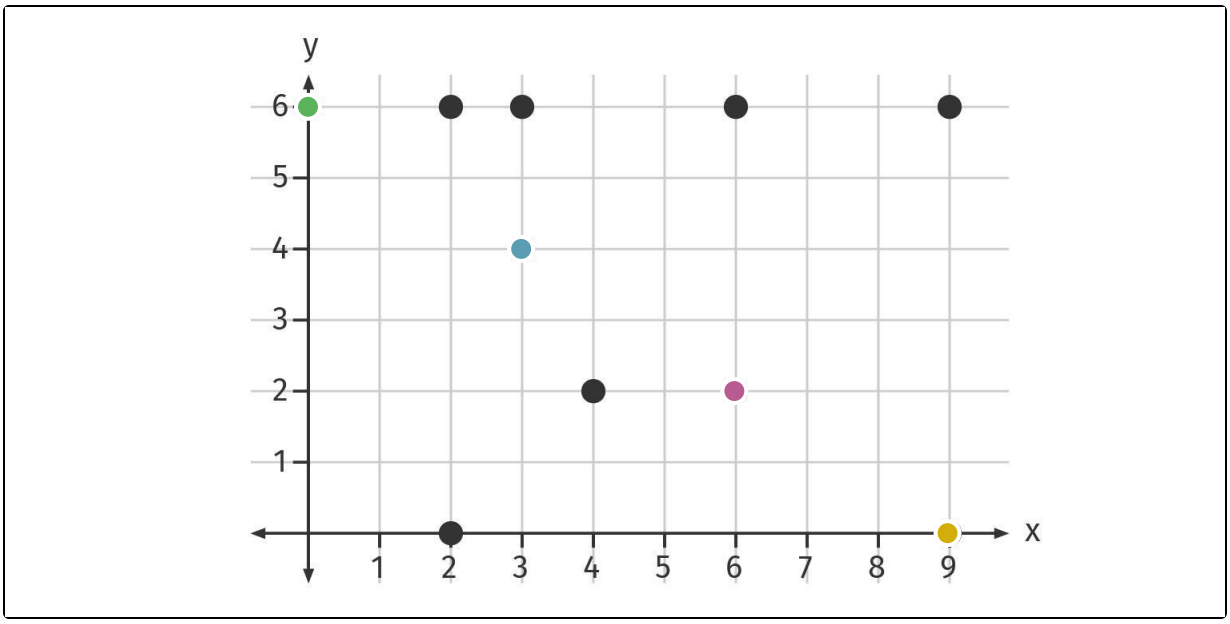
- Draw a line parallel to the y-axis which intersects the given x-coordinate.
- Draw a line parallel to the x-axis which intersects the given y-coordinate.
- The intersection of these two lines is the desired point.

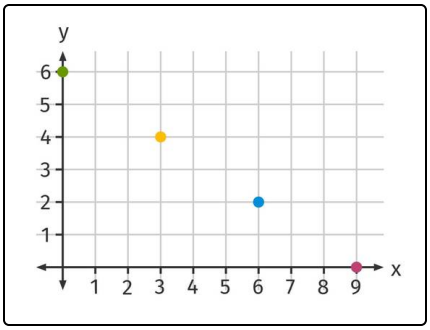
Answers and detailed answer explanations for these problems

1 of 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 leftmost coordinate is the x-coordinate.
- The rightmost 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 $y = -\frac{2}{3}x + 6$.

Watch the corresponding video: https://us.sofatutor.com/v/5Cr/aRK