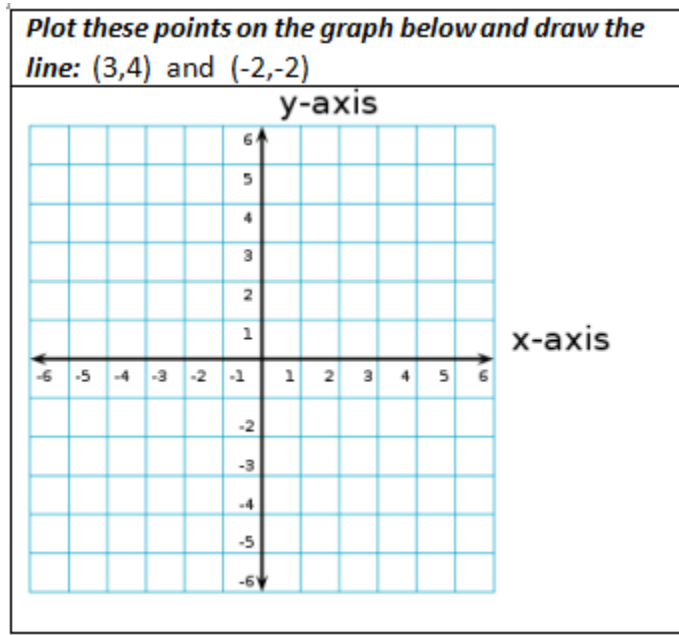


MAT0028 ~ Lesson 18-B

Work the following examples as you listen to the recorded lecture.

Graphing Lines by Point-Plotting

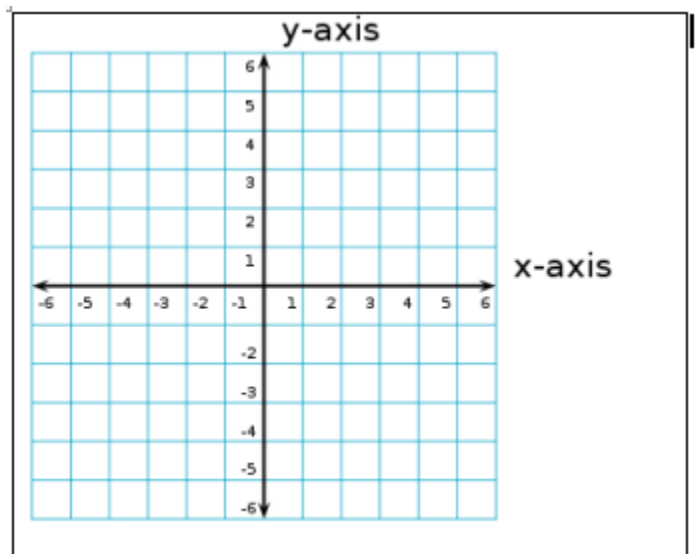
It takes only 2 points to draw a line on the rectangular coordinate system. For example, plot the points (3,4) and (-2,-2) on the graph below, and then draw a line that goes through both.



To graph linear equations, we simply need 2 points that work for the equation.

Example 1: $y = -4x$

x	y

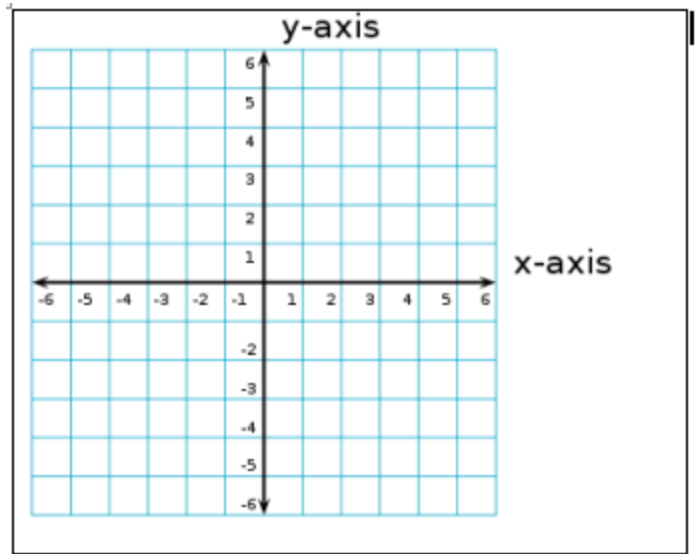


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Remember....
To graph a line by Point-Plotting:
1. Pick a value for either x or y .
2. Solve the equation for the unknown value.
3. Plot the point, and repeat these steps for another value.
4. Hint: pick numbers that make the equation easy to solve.

Example 2: $y = -x + 2$

x	y



Example 3: $x + 3y = 6$

x	y

