

GENERAL FORM

Of the Equation of a Line



- Where A and B are not both zero and A is a whole number.

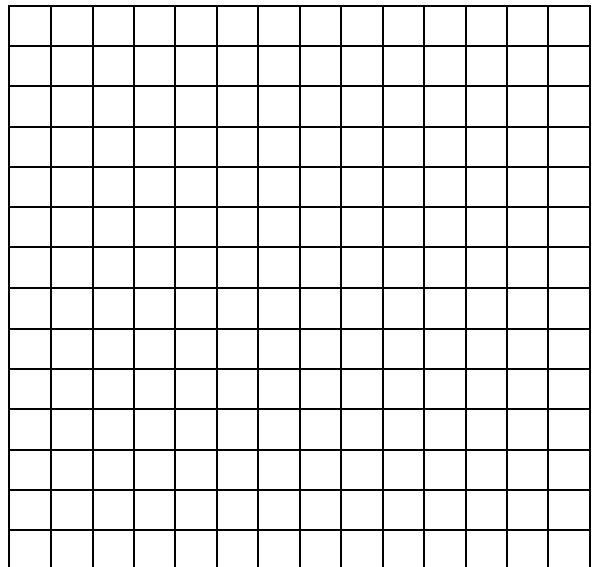
Graphing a Line Given an Equation in General Form

- There are two very convenient ways to graph a line given an equation in general form
- You are responsible to learn and confidently use both of these methods

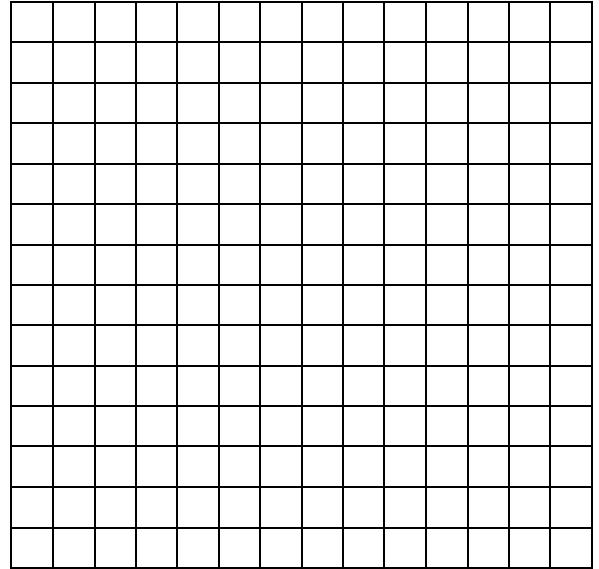
Method 1: Using the x-intercept and the y-intercept.

- Find the x-intercept by setting $y=0$ and solving for x
- Find the y-intercept by setting $x=0$ and solving for y
- You should always solve for one more point as a quality insurance point in case you made a calculation error when looking for the intercepts

Example 1: Graph $2x + 6y - 18 = 0$



Example 2: Graph $16x - 4y + 32 = 0$



Method 2: Convert the General Form into the Slope-Intercept Form

Example 1: Graph $2x + 6y - 18 = 0$

Example 2: Graph $16x - 4y + 32 = 0$

