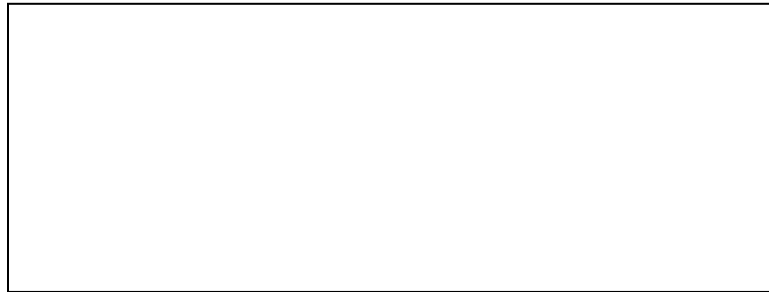


4.5: Graph Lines Using Slope – Intercept Form

- *GOAL***
- Rewrite equations so they are in slope – intercept form
 - Identify slope and y – intercept of a line from an equation
 - Identify slope and y – intercept of a line graphed
 - Use slope – intercept form to graph a line
-

Slope – Intercept Form:



Write the following equations in slope – intercept form if necessary, then identify the slope and the y – intercept:

Ex: $y = 3x + 4$

Ex: $y = -3x + 2$

Ex: $y = 5x - 3$

Ex: $y = -\frac{1}{3}x + 3$

Ex: $y = -\frac{1}{4}x + 1.5$

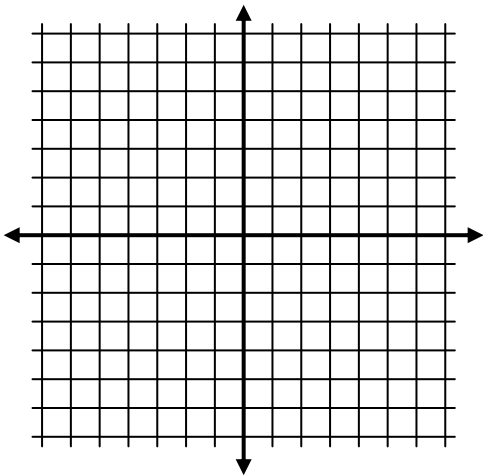
Ex: $-x + y = 4$

Graph an equation of a line using slope – intercept form:

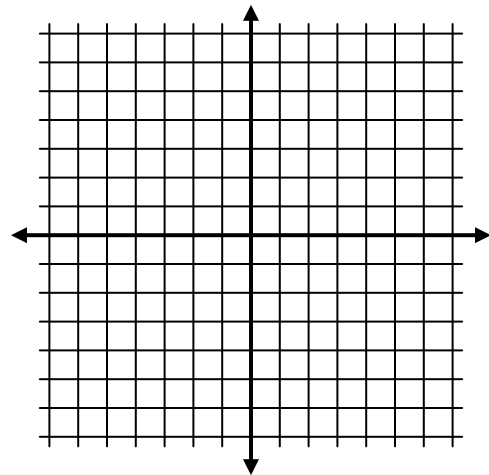
1. Make sure the equation is written in _____.
2. Identify _____ and _____
 - make sure the slope is written as a _____ so you can identify _____ and _____
3. Graph _____ first. Your only choices are _____ or _____.
4. Moving **from** the y – intercept go where the _____ and _____ tells you to go.
5. Plot multiple points and connect.

Graph using slope – intercept form:

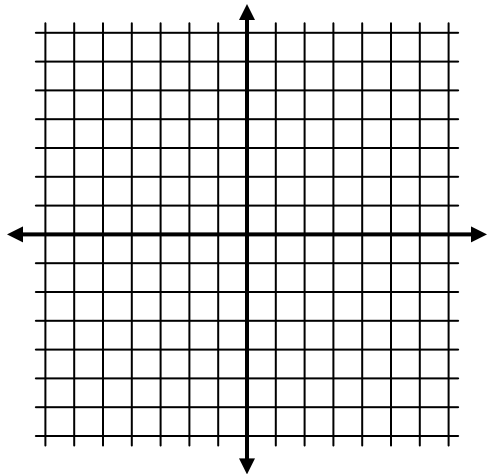
Ex: $y = -2x + 3$



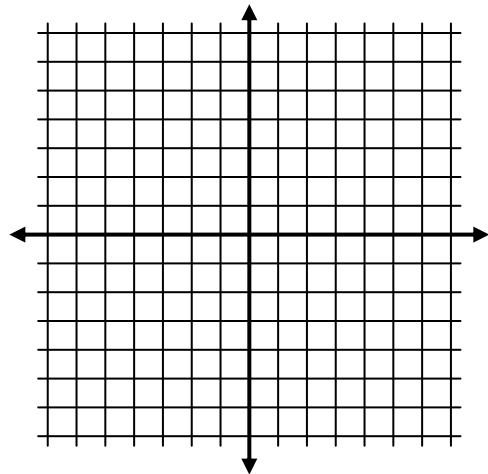
Ex: $y = -2x + 5$



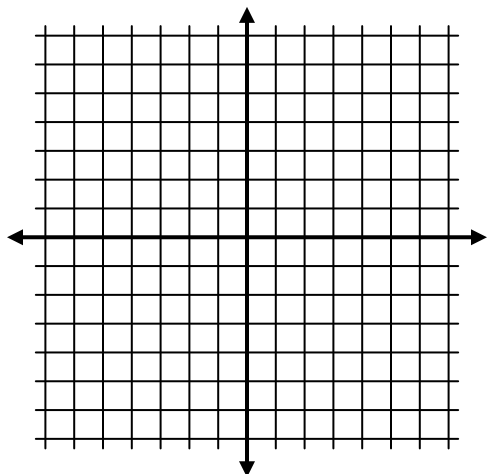
Ex: $y = \frac{1}{2}x + 2$



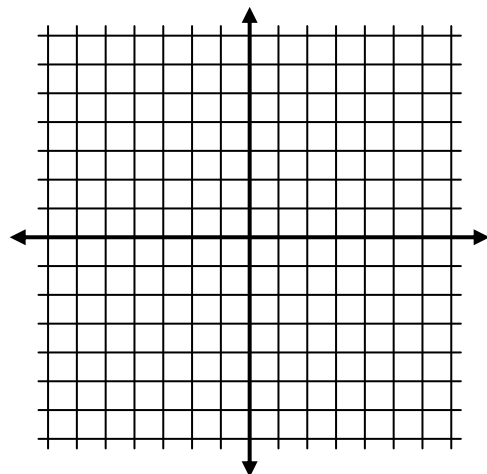
Ex: $y = -\frac{2}{3}x + 4$



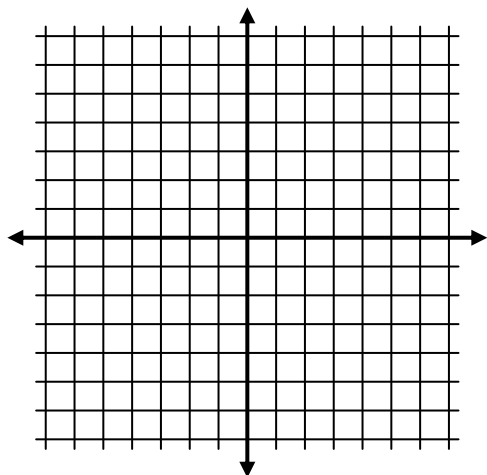
Ex: $y = \frac{3}{4}x$



Ex: $-x + y = 3$



Ex: $y = -\frac{2}{5}x + 1$



Ex: $y = \frac{4}{3}x + 2$

