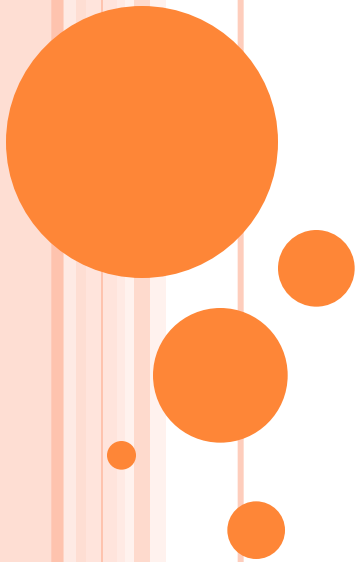


QUICK GRAPHS USING SLOPE- INTERCEPT FORM

Chapter 4
Section 6



SLOPE-INTERCEPT FORM

○ $y = mx + b$

- Where **m** is the slope and **b** is the y-intercept and **(x, y)** is a point

Examples:

1. $y = 3x + 4$ Slope: Y-Int:

2. $y = -x + 2$ Slope: Y-Int:

3. $y = 5x - 3$ Slope: Y-Int:

4. $y = 6$ Slope: Y-int:



GRAPHING USING SLOPE AND Y-INTERCEPT

○ Steps to Graph using Slope and y-intercept

1. Write the equation in slope intercept form
($y = mx + b$)
2. Find the slope and y-intercept
3. Plot the point of the y-intercept (0,y)
4. Graph the slope starting at the point from the y-intercept
5. Draw a line through the two points



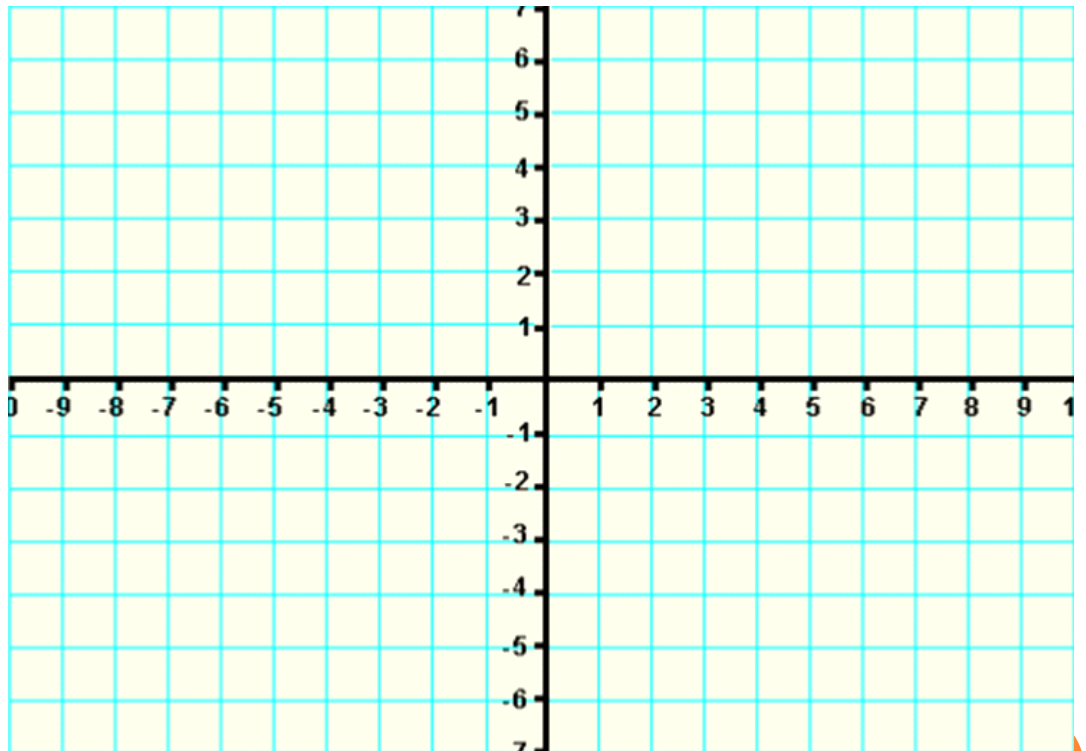
EXAMPLE:

1. $y = -4x + 2$

$$m = -4$$

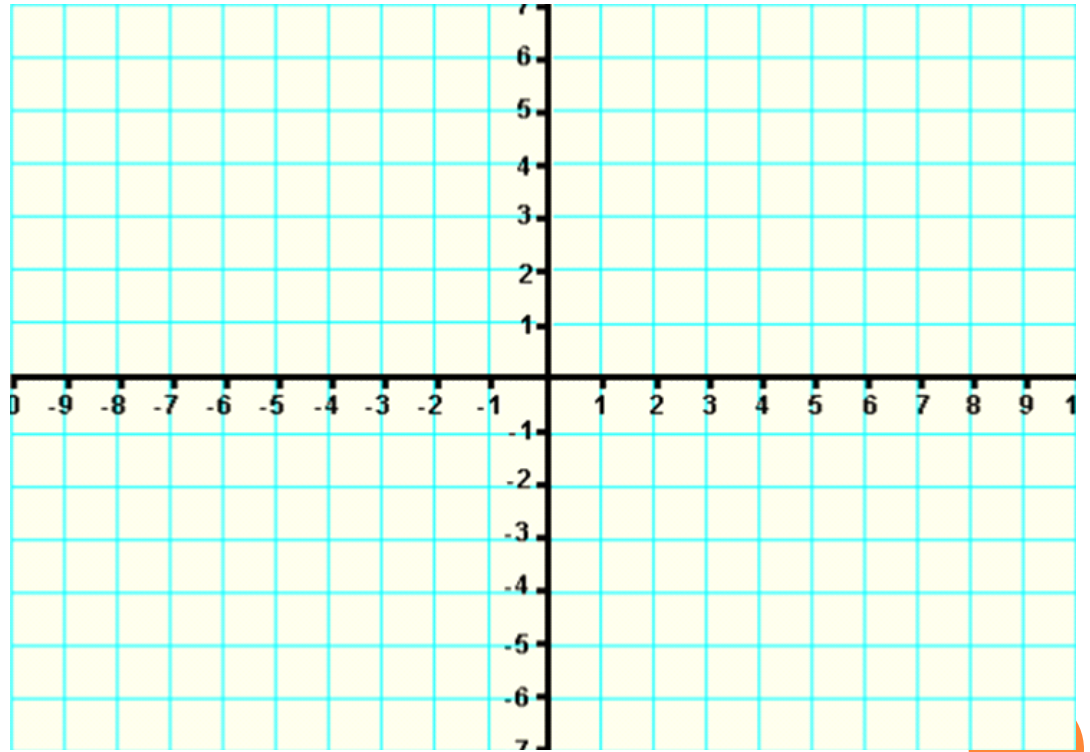
$$y\text{-int} = 2$$

y - int point: $(0,2)$



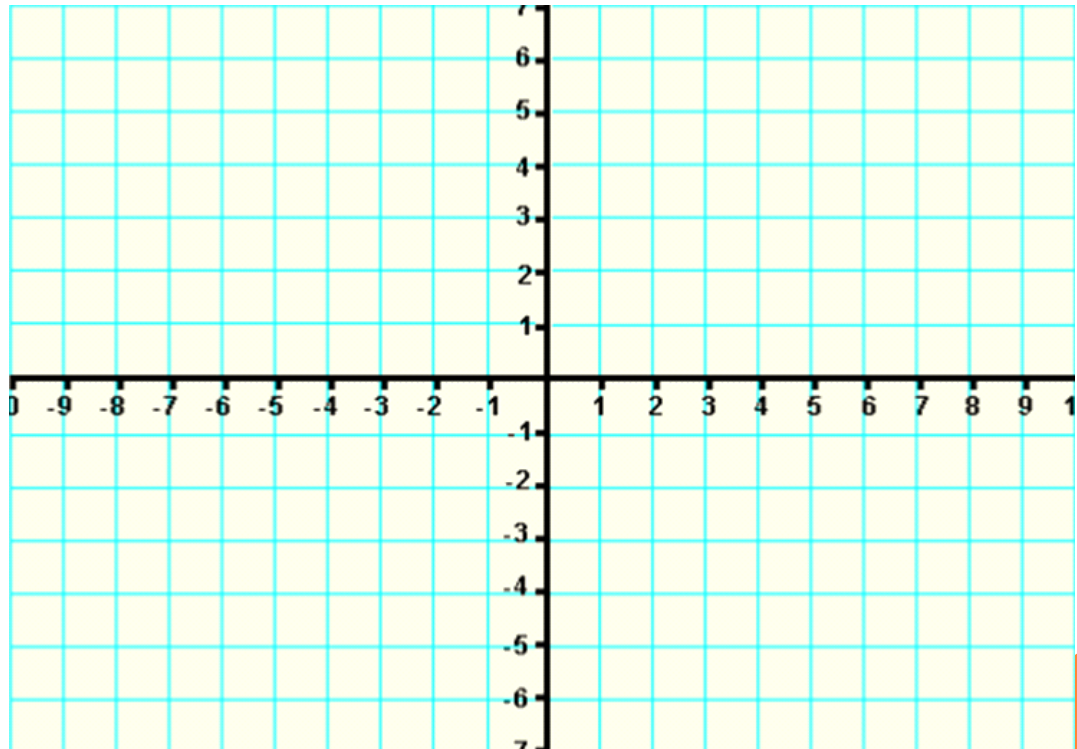
EXAMPLE:

○ 2. $6x + 2y = 12$



EXAMPLE:
GRAPH USING SLOPE AND Y-INTERCEPT

○ 3. $-3x + 3y = 6$

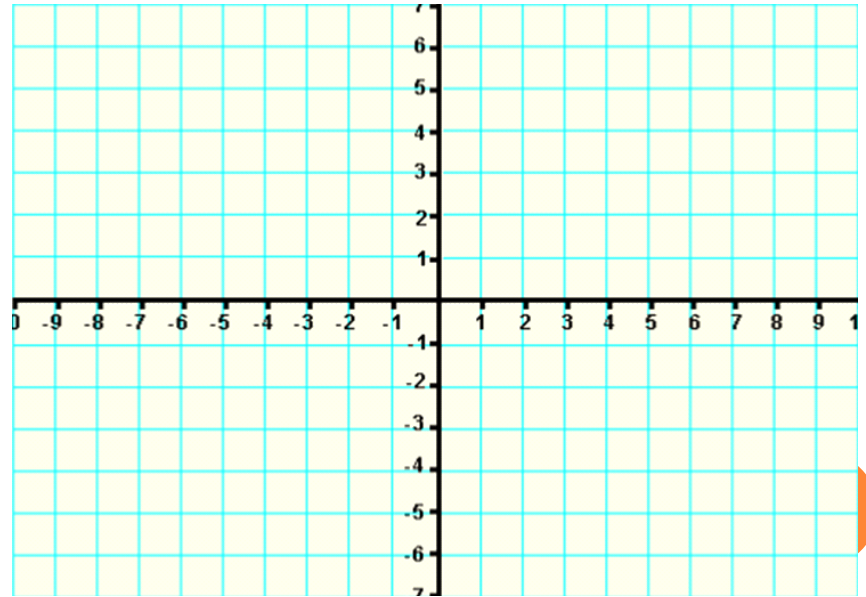
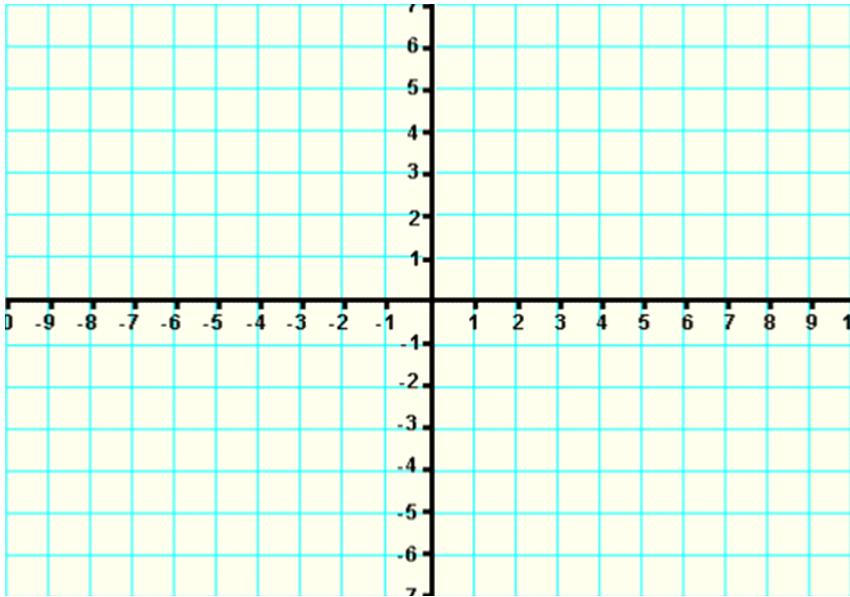


EXAMPLE:

- Graph the following using the slope and the y-intercept:

4. $(0,2)$ $m = \frac{1}{2}$

5. $(0,-3)$ $m = -3$



CLASS WORK

- Page 244 #5-10 and 22



HOMEWORK

- Page 244 #13-21, 37-39

