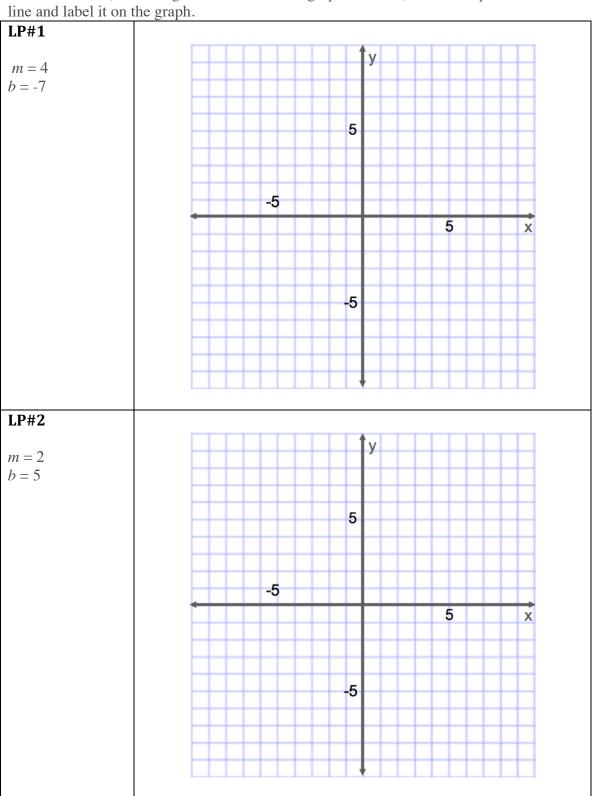
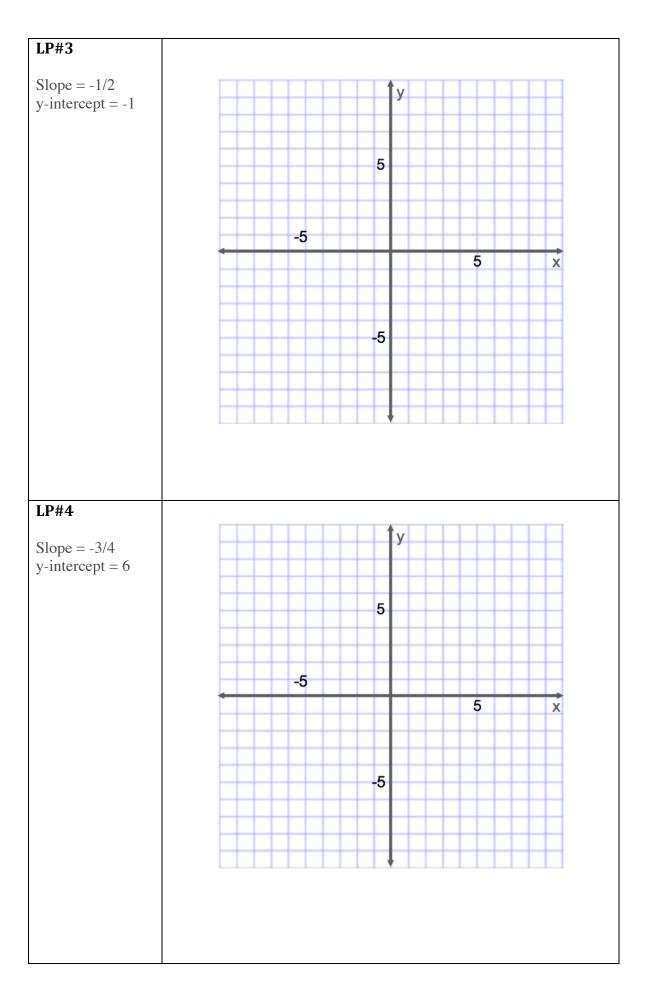
## **5.5** – Graphing Lines Using Slope and Y-Intercept

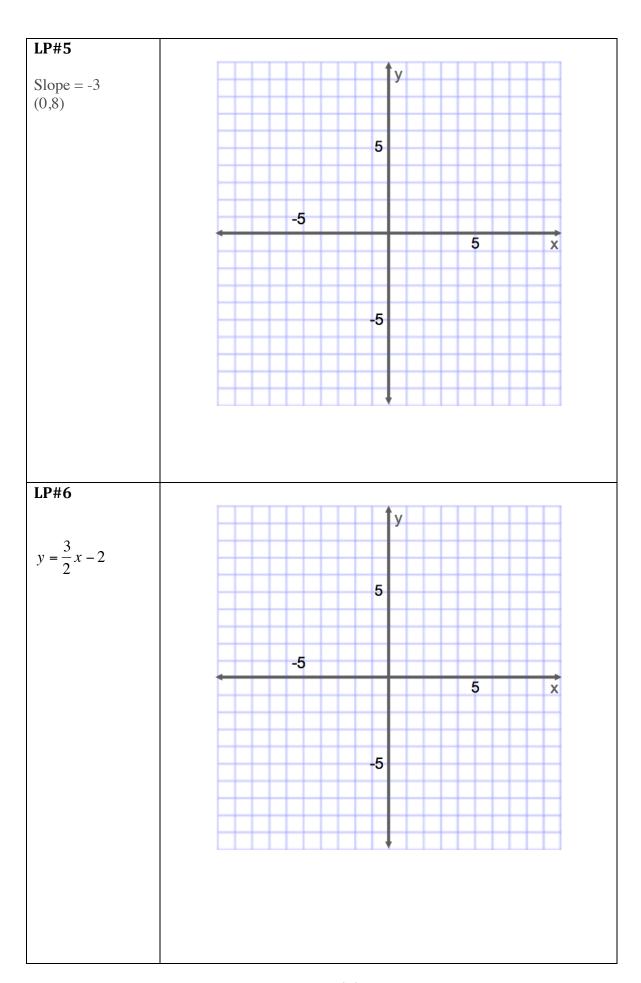
Using the phrase "The intercept shows you where to start and the slope shows you where to go" graph the following.

Class Notes – 1) Use the given information to graph a line. 2) State an equation for the line and label it on the graph.

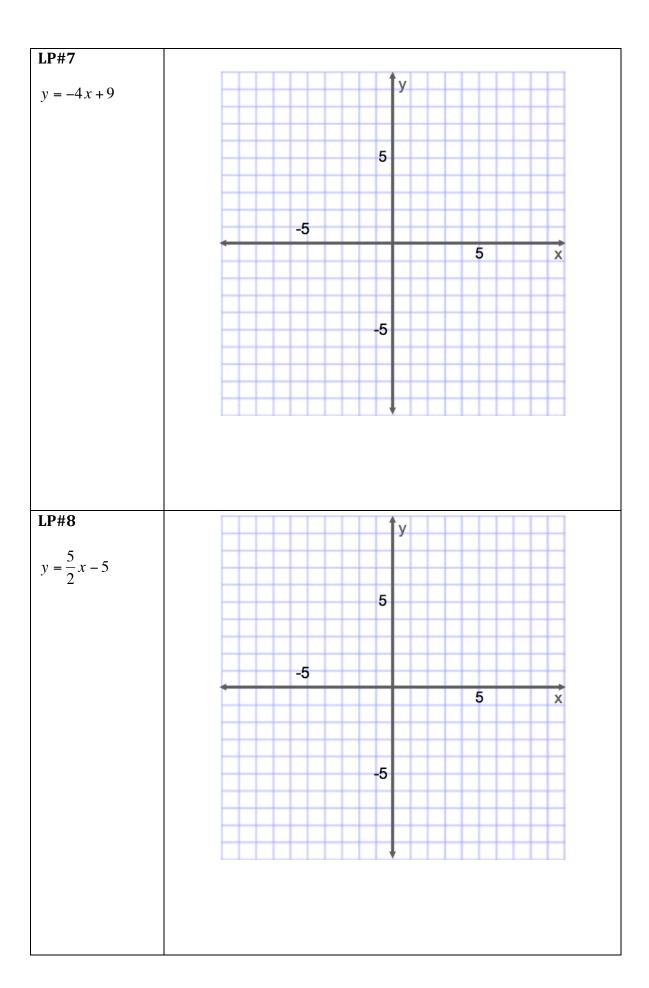




Lesson 5.5

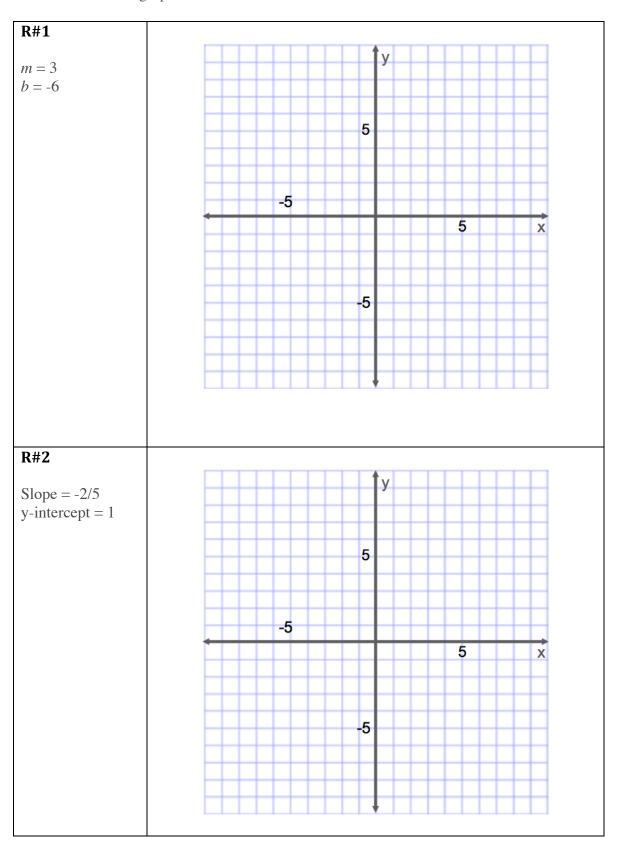


Lesson 5.5



Using the phrase "The intercept shows you where to start and the slope shows you where to go" graph the following.

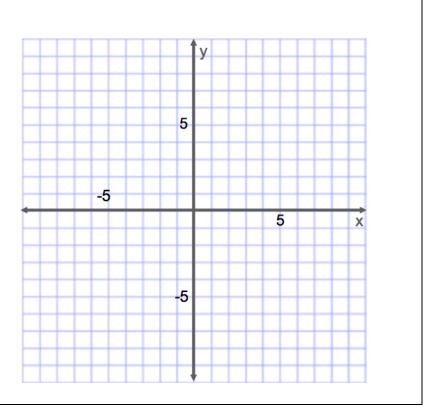
Review - 1) Use the given information to graph a line. 2) State an equation for the line and label it on the graph.



Lesson 5.5



 $y = \frac{3}{2}x - 7$ 



## Homework

On a piece of graph paper, graph each line using the information given. Label each line with its equation.

1) 
$$m = -2$$
  $b = 3$ 

**2**) 
$$m = 3/2$$
  $b = -4$ 

**2)** 
$$m = 3/2$$
 **3)**  $m = 1/3$   $b = -4$   $b = 5$ 

**4)** 
$$m = -1$$
  $b = -5$ 

**5**) 
$$m = 2$$
  $b = -8$ 

**6)** 
$$m = 0.25$$
  $b = -3$ 

7) 
$$m = -5/4$$
  $b = 9$ 

8) 
$$m = 1$$
  $b = 0$ 

12) Slope = 
$$-5/3$$
  
y-intercept =  $-2$ 

17) 
$$y = \frac{7}{2}x - 9$$
 18)  $y = -\frac{1}{2}x$  19)  $y = \frac{4}{3}x + 1$ 

**18**) 
$$y = -\frac{1}{2}x$$

**19**) 
$$y = \frac{4}{3}x + 1$$

**20**) 
$$y = x - 4$$

**21**) 
$$y = -\frac{3}{2}x + 2$$

**22**) 
$$y = 3x - 1$$

22) 
$$y = 3x - 1$$
 23)  $y = 4x - 10$ 

**24**) 
$$y = \frac{5}{6}x$$

**Synthesis**