Unit 4.3 Slope Intercept Form and Point Slope Form

1. Identify the slope and intercept for the given linear equation

a.
$$y = \frac{1}{2}x + 3$$

b.
$$2y = 4x + 8$$

c.
$$3x + 6y = 9$$

2. Find the *slope* of the line through the ordered pairs

b.
$$(\frac{7}{2}, \frac{3}{4})$$
 and $(\frac{1}{2}, -3)$

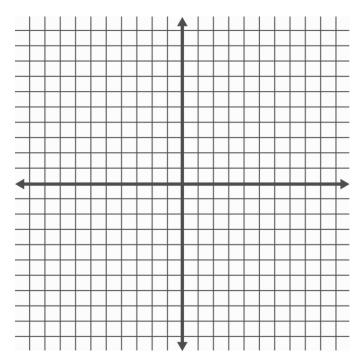
3. Find the *slope* and *intercept* through the ordered pairs

b. (4,100) and (20,420)

4. Write each equation in slope – intercept form. Then graph the line.

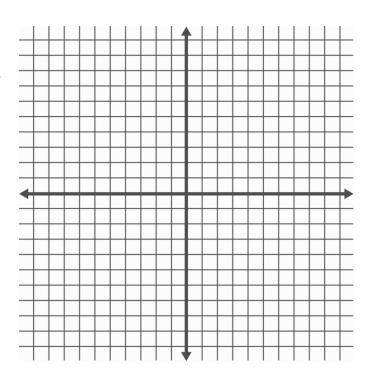
a. x + 5y = 10

equation: _____



b. 5x - 2y + 5 = 0

equation:



5. Find the slope - intercept equation for the lines given as an ordered pair and slope

a. (0.9) where m = -1

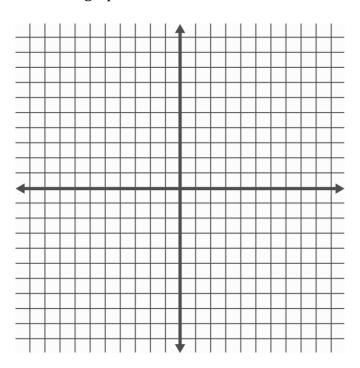
Equation: _____

b. (2,-3) where $m = -\frac{5}{6}$

Equation:

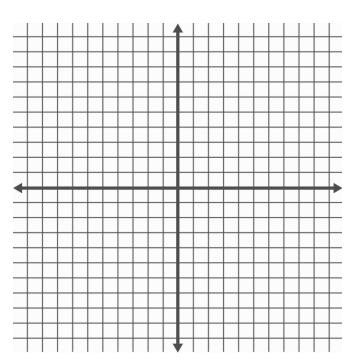
6. Find the slope and a point on the line. Then graph the line

$$y + 6 = \frac{1}{3}(x - 7)$$

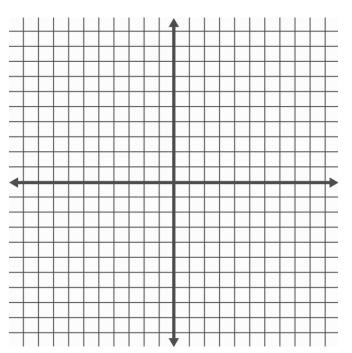


7. Write the following in point slope form and then graph the line $(\frac{5}{2}, 0)$ and $(2, -\frac{1}{3})$

$$(\frac{5}{2},0)$$
 and $(2,-\frac{1}{3})$



8. Determine the equation for the line that is parallel to 7x - 3y = 1 that goes through (-1,1). Graph both lines



9. Determine the equation for the line that is perpendicular to 2x + y = 5 that goes through (6,-1). Graph both lines

