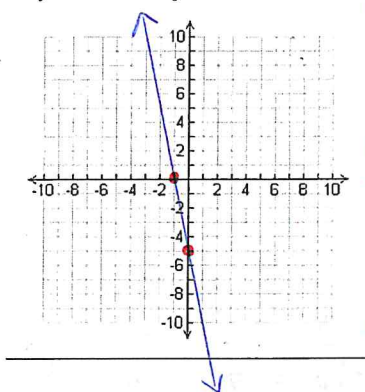


Graphing Linear Equations

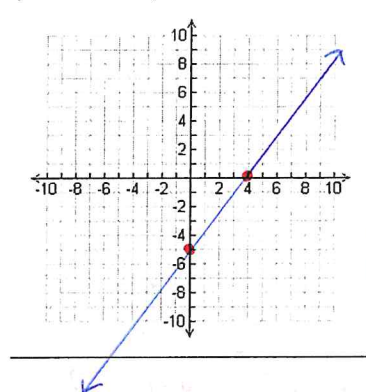
Unit 3: Introduction to Functions

Sketch the graph of each line.

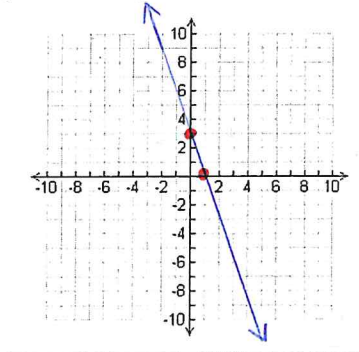
1. x -intercept = -1 ,
 y -intercept = -5



2. x -intercept = 4 ,
 y -intercept = -5

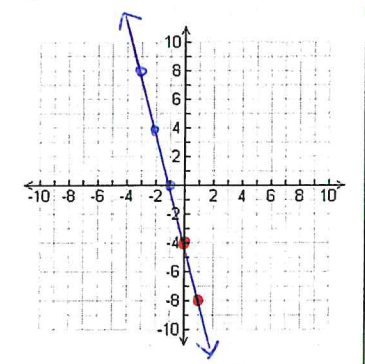


3. x -intercept = 1 ,
 y -intercept = 3



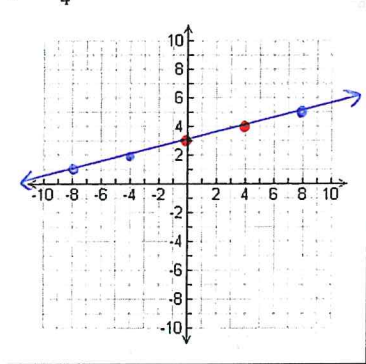
Sketch the graph of each line and identify the slope and the y -intercept of each line.

4. $y = -4x - 4$



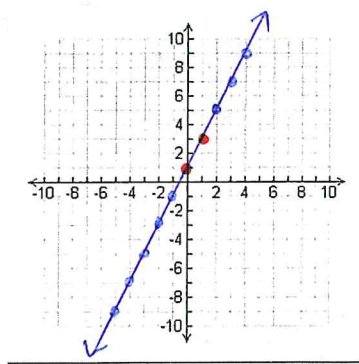
slope = $-\frac{4}{1}$
 y -int = -4

5. $y = \frac{1}{4}x + 3$



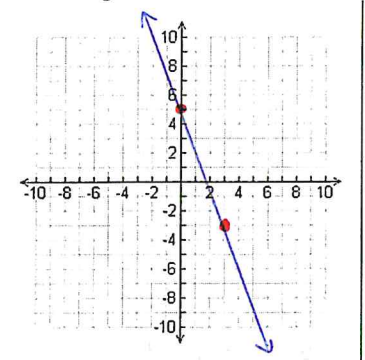
slope = $\frac{1}{4}$
 y -int = 3

6. $y = 2x + 1$



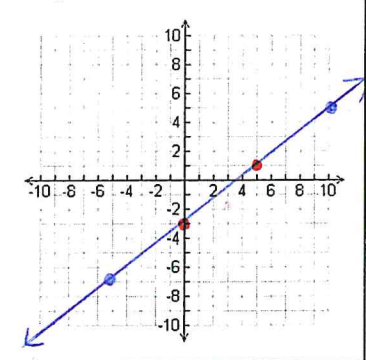
slope = $\frac{2}{1}$
 y -int = 1

7. $y = -\frac{8}{3}x + 5$



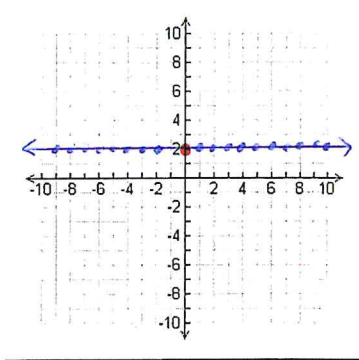
slope = $-\frac{8}{3}$
 y -int = 5

8. $y = \frac{4}{5}x - 3$



slope = $\frac{4}{5}$
 y -int = -3

9. $y = 2$



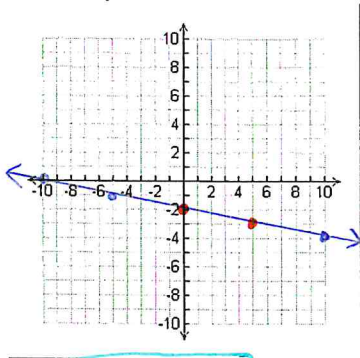
slope = 0
 y -int = 2

Red Dots are they y -int & 1 pt using the slope.

Blue dots are additional pts possible using slope

Identify the slope-intercept form of the given standard form equation and then sketch the graph of the function. Identify the slope and the y-intercept of each function.

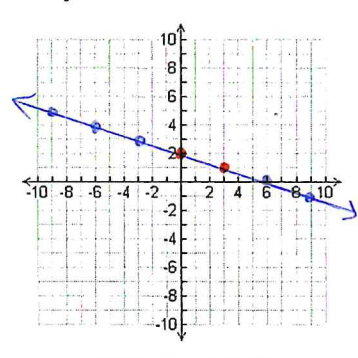
10. $x + 5y = -10$



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

$$\text{slope} = -\frac{1}{5} \quad y\text{-int} = -2$$

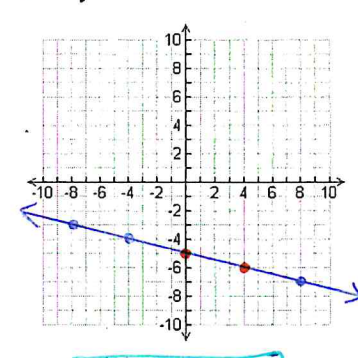
11. $x + 3y = 6$



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

$$\text{slope} = -\frac{1}{3} \quad y\text{-int} = 2$$

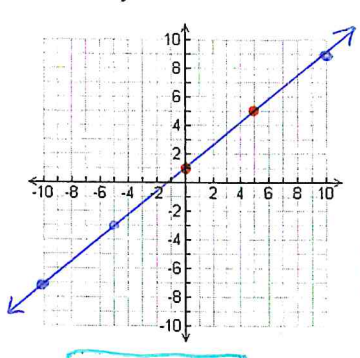
12. $x + 4y = -20$



$$y = -\frac{1}{4}x - 5$$

$$\text{slope} = -\frac{1}{4} \quad y\text{-int} = -5$$

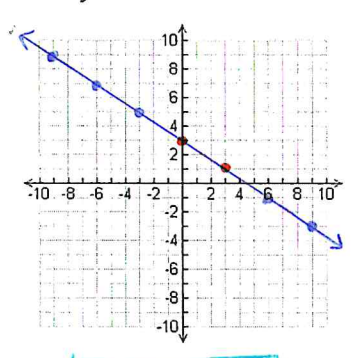
13. $4x - 5y = -5$



$$y = \frac{4}{5}x + 1$$

$$\text{slope} = \frac{4}{5} \quad y\text{-int} = 1$$

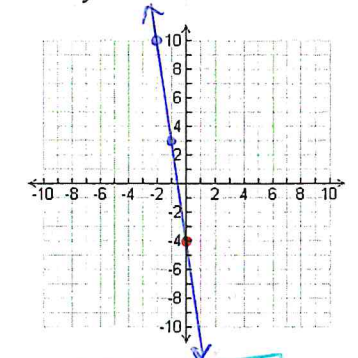
14. $2x + 3y = 9$



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

$$\text{slope} = -\frac{2}{3} \quad y\text{-int} = 3$$

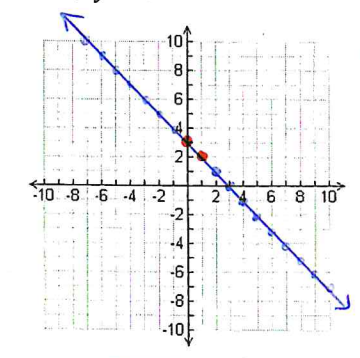
15. $7x + y = -4$



$$y = -7x - 4$$

$$\text{slope} = -7 \quad y\text{-int} = -4$$

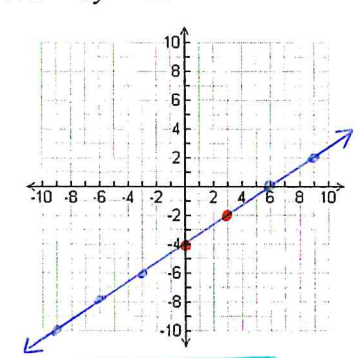
16. $x + y = 3$



$$y = -x + 3$$

$$\text{slope} = -1 \quad y\text{-int} = 3$$

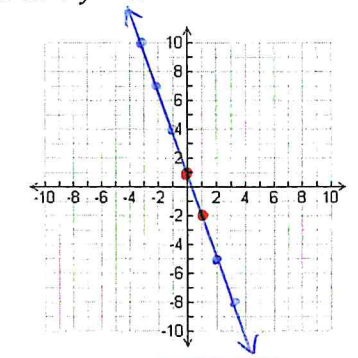
17. $2x - 3y = 12$



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

$$\text{slope} = \frac{2}{3} \quad y\text{-int} = -4$$

18. $3x + y = 1$



$$y = -3x + 1$$

$$\text{slope} = -3 \quad y\text{-int} = 1$$