

5.3 Slope-Intercept ( $y = mx + b$ )

Name \_\_\_\_\_

Hour \_\_\_\_\_

**Write the slope-intercept form of the equation of each line given the slope and intercept.**

1) Slope =  $\frac{2}{3}$ , y-intercept = 1

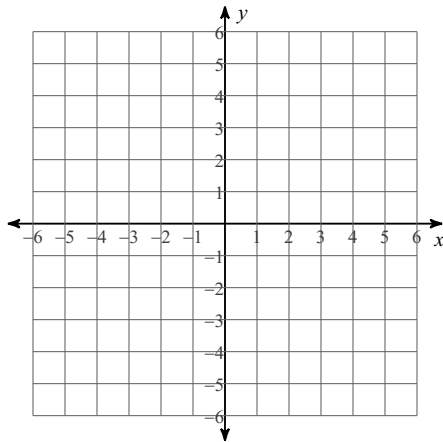
2) Slope =  $\frac{1}{3}$ , y-intercept = 1

3) Slope =  $\frac{2}{5}$ , y-intercept = -2

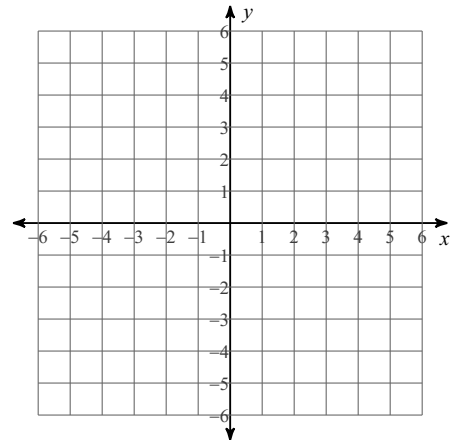
4) Slope =  $\frac{7}{2}$ , y-intercept = -3

**Sketch the graph of each line. (Hint: 1st put each equation into slope-intercept form.)**

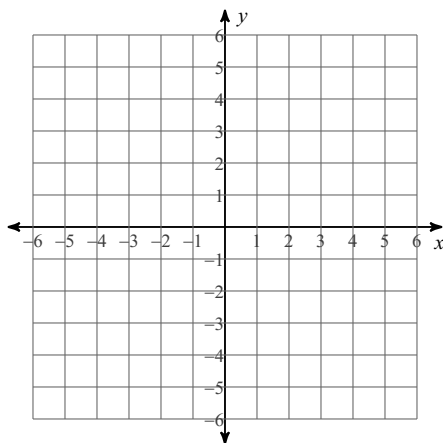
5)  $y = \frac{8}{3}x + 3$



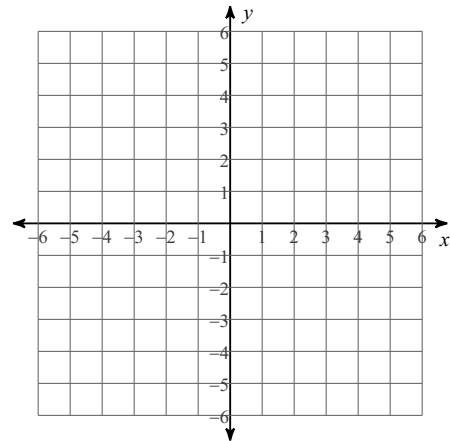
6)  $x = 5$



7)  $y = \frac{5}{4}x + 3$

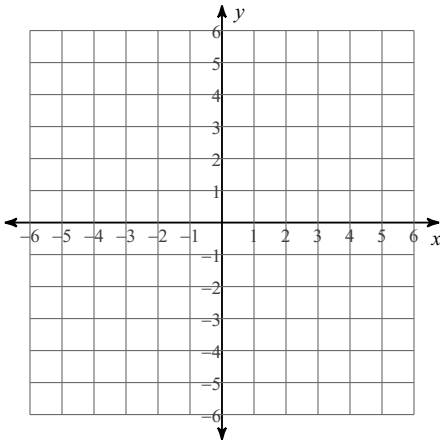


8)  $y = -x - 4$

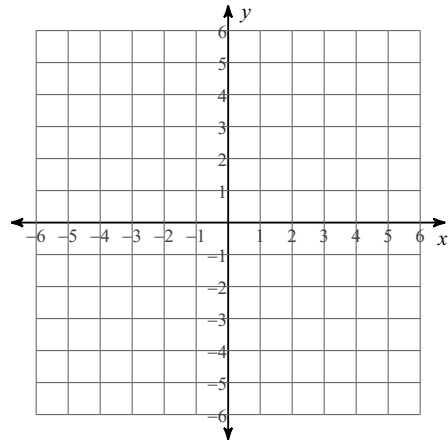


Sketch the graph of each line.

9)  $2x - 3y = 6$

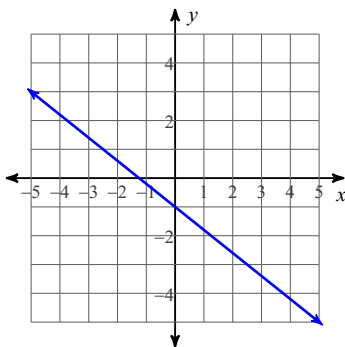


10)  $x + y = 2$

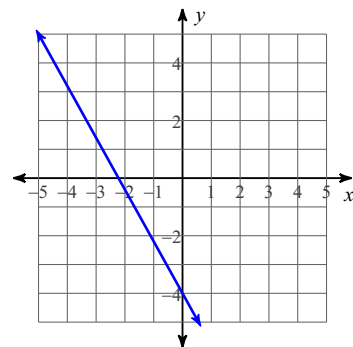


Write the slope-intercept form of the equation of each line.

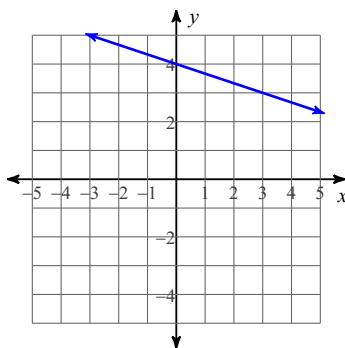
11)



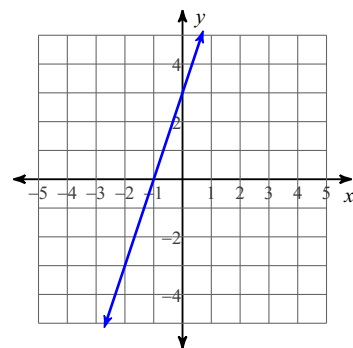
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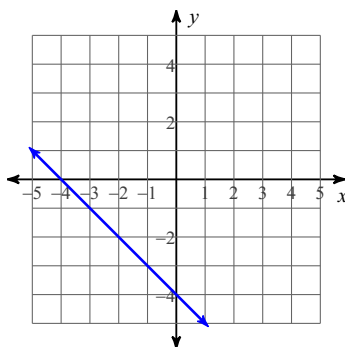
13)



14)



15)



16)

