

Each section of the homework corresponds to a section on the notes walkthrough! Use the examples from the notes walkthrough to help you!

SECTION 1 : Find the slope of the line through each pair of points

1) $(-15, -6), (-14, 18)$

2) $(19, -17), (-6, -9)$

SECTION 2 : Identify the slope of the line and the y-intercept from the following equations.

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

4) $y = -\frac{6}{5}x - 4$

5) $y = 2x - 1$

6) $y = -5$

SECTION 3 : Write the equation of a line given the slope and y-intercept.

7) $m = -2, b = 3$

8) $m = \frac{1}{4}, b = -\frac{2}{3}$

SECTION 4 : Write the slope-intercept form of the equation of the line through the given point with the given slope.

9) Through : $(-1, 4)$, slope = -6

10) Through : $(5, 2)$, slope = $-\frac{1}{5}$

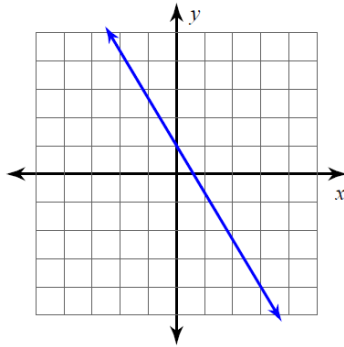
SECTION 5 : Write the slope-form of the equation of the line through the given points.

11) Through : $(-5, -2)$ and $(-3, -4)$

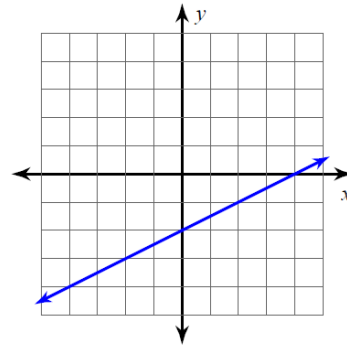
12) Through : $(3, -20)$ and $(5, 8)$

SECTION 6 : Write the slope-intercept form of the equation of each line.

13)

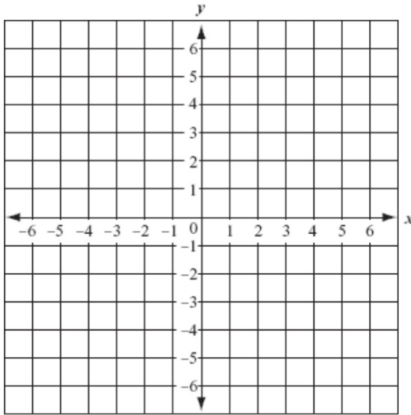


14)

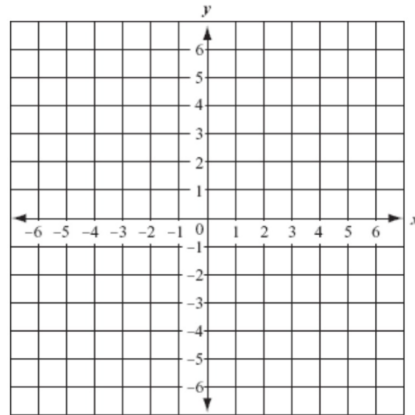


Please graph the following two equations on the coordinate plane.

15) $y = -\frac{4}{3}x + 4$

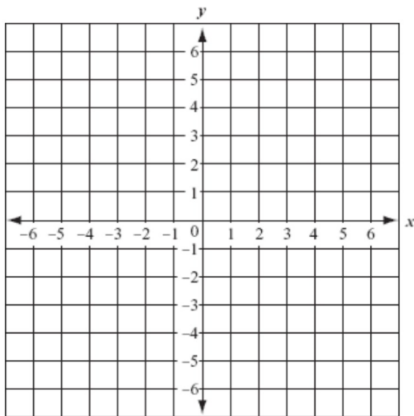


16) $y = 1$

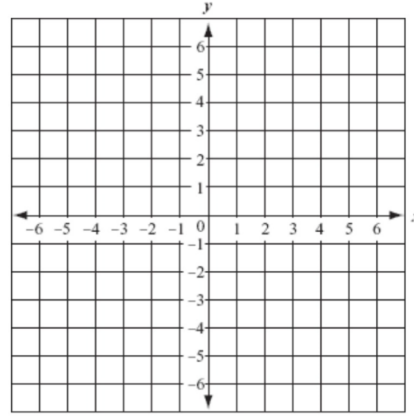


Sketch the graph of each line using the provided intercepts.

17) x-intercept = 3 , y-intercept = -5



18) x-intercept = -5 , y-intercept = 2



Answer Key :

1) 24

2) $-\frac{8}{25}$

3) $m = \frac{4}{5}, b = -5$

4) $m = -\frac{6}{5}, b = -4$

5) $m = 2, b = -1$

6) $m = 0, b = -5$

7) $y = -2x + 3$

8) $y = \frac{1}{4}x - \frac{2}{3}$

9) $y = -6x - 2$

10) $y = -\frac{1}{5}x + 3$

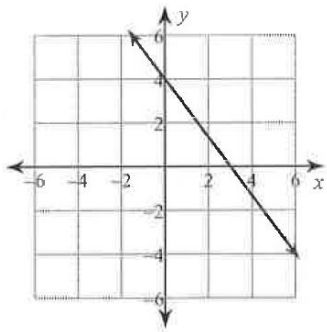
11) $y = -x - 7$

12) $y = 14x - 62$

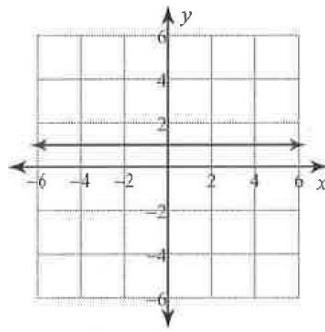
13) $y = -\frac{5}{3}x + 1$

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

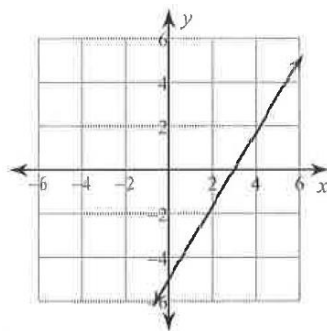
15)



16)



17)



18)

