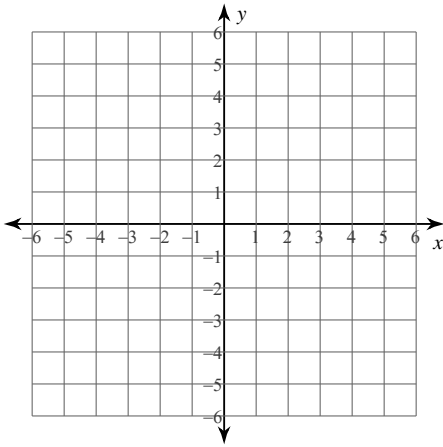


## HW21 - Point-Slope &amp; Slope-Intercept Worksheet

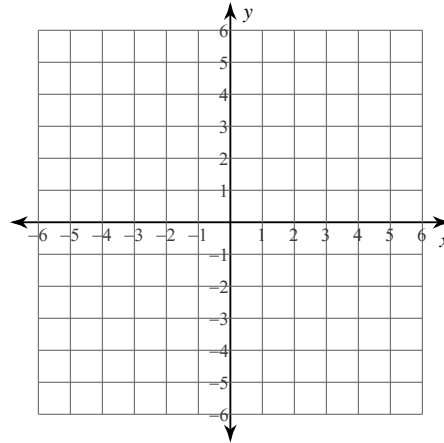
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**Sketch the graph of each line.**

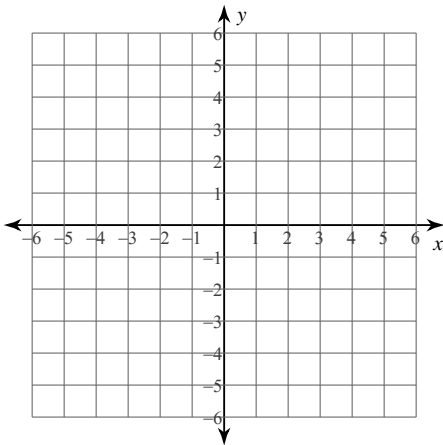
1)  $y = \frac{4}{3}x - 2$



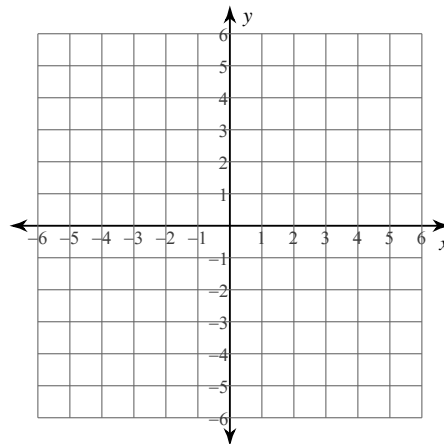
2)  $y = -x$



3)  $y = 6x - 5$



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

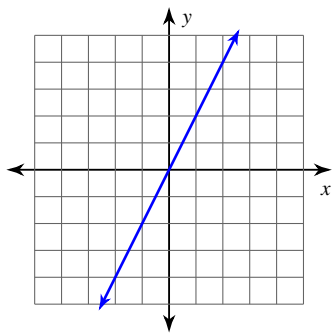
**Find the slope of the line through each pair of points.**

5)  $(-6, 18), (-3, -1)$

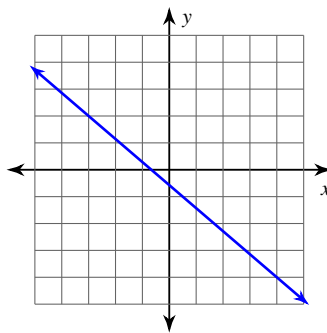
6)  $(7, -12), (-9, -8)$

**Find the slope of each line.**

7)



8)



9)  $y = \frac{7}{3}x - 5$

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

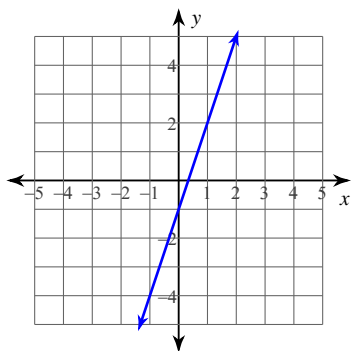
**Write the slope-intercept form of the equation of each line given the slope and y-intercept.**

11) Slope =  $-4$ , y-intercept =  $2$

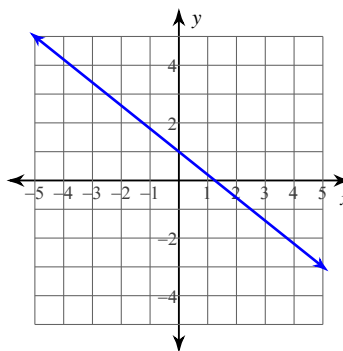
12) Slope =  $\frac{7}{2}$ , y-intercept =  $5$

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

13)



14)



**Write the point-slope form of the equation of the line through the given point with the given slope.**

15) through:  $(4, -4)$ , slope =  $-1$

16) through:  $(1, 4)$ , slope =  $2$

**Write the point-slope form of the equation of the line through the given points.**

17) through:  $(-4, -5)$  and  $(-5, 3)$

18) through:  $(-4, -3)$  and  $(-1, 2)$

**Write the slope-intercept form of the equation of the line through the given point with the given slope.**

19) through:  $(-1, -5)$ , slope =  $8$

20) through:  $(-1, -1)$ , slope =  $5$

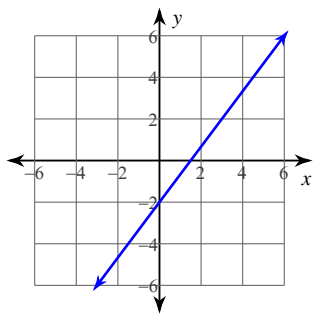
**Write the slope-intercept form of the equation of the line through the given points.**

21) through:  $(-4, 4)$  and  $(5, 4)$

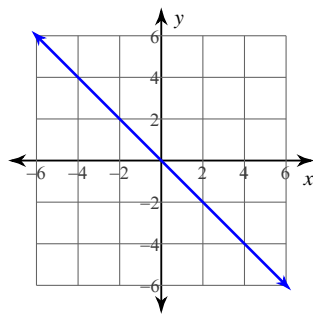
22) through:  $(-4, 4)$  and  $(2, -5)$

# Answers to HW21 - Point-Slope & Slope-Intercept Worksheet (ID: 1)

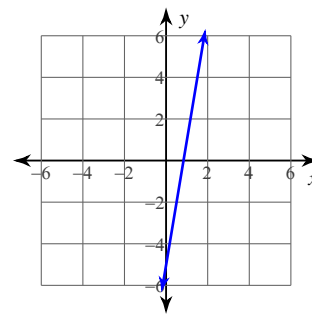
1)



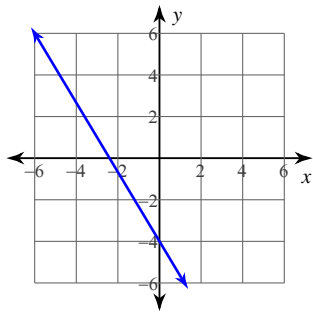
2)



3)



4)



5)  $-\frac{19}{3}$

6)  $-\frac{1}{4}$

7) 2

8)  $-\frac{6}{7}$

9)  $\frac{7}{3}$

10)  $\frac{3}{4}$

11)  $y = -4x + 2$

12)  $y = \frac{7}{2}x + 5$

13)  $y = 3x - 1$

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

15)  $y + 4 = -(x - 4)$

16)  $y - 4 = 2(x - 1)$

17)  $y + 5 = -8(x + 4)$

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

19)  $y = 8x + 3$

20)  $y = 5x + 4$

21)  $y = 4$

22)  $y = -\frac{3}{2}x - 2$