

Name: _____ **Slope Review**

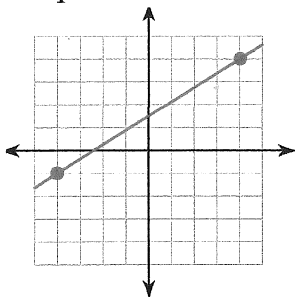
Find the value of x and y so that the line through the points has the given slope:

Ex. 1) $(x, -4)$ and $(-3, 9)$; slope: $\frac{13}{4}$

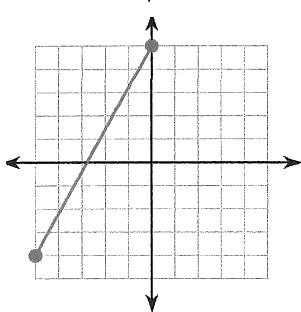
Ex. 2) $(8, -5)$ and $(6, y)$; slope: -5

Find the slope:

Ex. 3)



Ex. 4)



Ex. 5) $(0, -8), (-2, -2)$

Ex. 6) $(-4, 20), (-11, -19)$

Ex. 7) $y = -x - 3$

Ex. 8) $y + \frac{1}{5}x = 2$

Ex. 9) Find the slope of the line that is parallel to the line $y = 5x - 7$.

Ex. 10) Find the slope of the line that is perpendicular to the line $y = -\frac{4}{5}x + 2$.

Write an equation for a line with the following information.

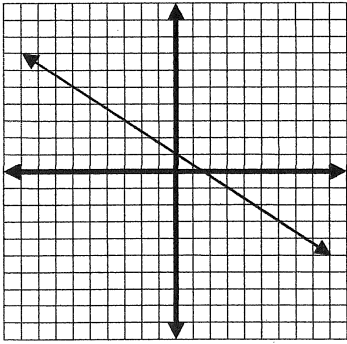
Ex. 11) Through points $(1, -8)$ and $(4, -14)$

Ex. 12) Slope = $\frac{3}{5}$ through point $(20, -9)$

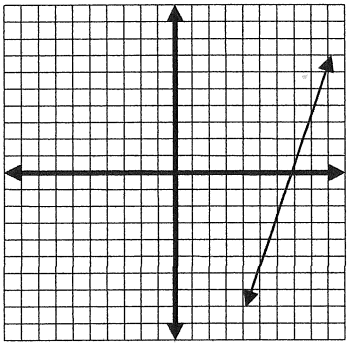
Ex. 13) Perpendicular to $y = -\frac{7}{2}x + 5$, with a y -intercept of -9 .

HOMEWORK:

1) Write the equation for the line in the graph.



2) Write the equation for the line in the graph.



Write an equation for a line with the following information.

3) Through points $(-2, -5)$ and $(1, -11)$

4) Slope = $\frac{2}{5}$ through point $(10, -9)$

5) Perpendicular to $y = -\frac{4}{3}x + 6$, with a y-intercept of -10 .

x	y
-10	6
-5	3
5	-3
15	-9

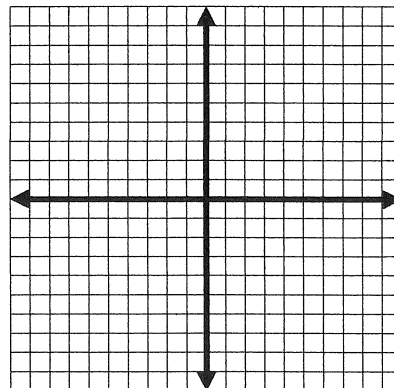
6) Find the linear equation for the table above.

7) Find the equation of a line parallel to line $2x - 5y = 6$ with a y-intercept of $(0, 7)$.

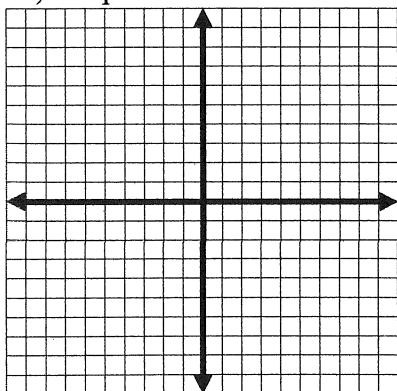
8) Write an equation of a line that contains the given point and is parallel to the given line.

$$(6, 4); -7x + 3y = 9$$

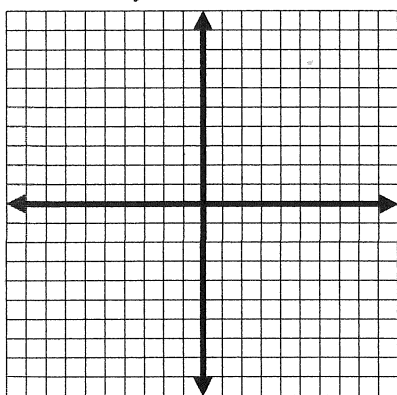
9) Graph: $y = -\frac{1}{3}x + 5$



10) Graph: $x = -5$



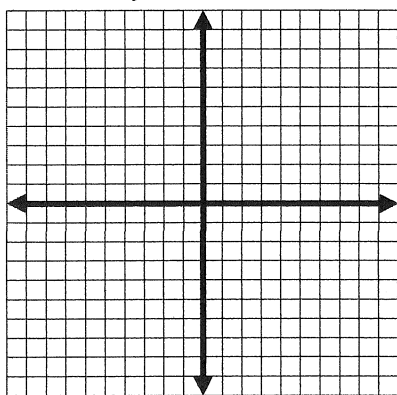
11) Find the x - and y -intercepts and graph:
 $2x + 5y = 20$



x -int:

y -int:

12) Find the x - and y -intercepts and graph:
 $4x - y = 8$



x -int:

y -int:

Write an equation for the following lines.

13) $m = 7$ and $b = -4$

14) Slope of $-1/3$ and y -intercept of $(0, 1)$

15) Give the slope and y -intercept for the following:

a) $2y = -7(x + 2)$

Slope: _____ y -int: _____

b) $y - 9 = 4x + 1$

Slope: _____ y -int: _____

16) Write an equation for a line that is perpendicular to $y = -3x + 6$, with a y -intercept of -10 .

x	y
4	8
8	7
16	5
20	4

17) What is the equation for the table above?

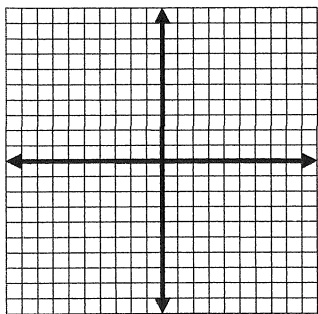
A $y = \frac{1}{4}x - 1$

B $y = -\frac{1}{4}x + 9$

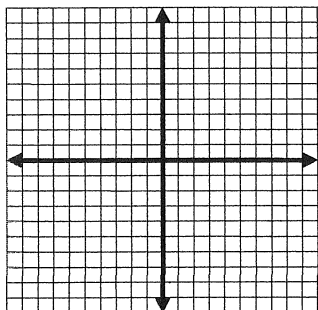
C $y = 4x - 6$

D $y = -4x + 20$

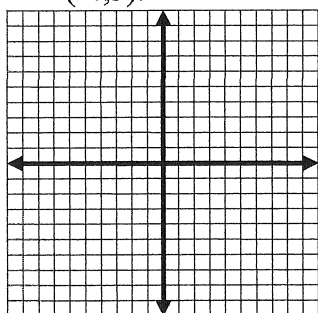
18) Graph: $2x - 6y = 0$



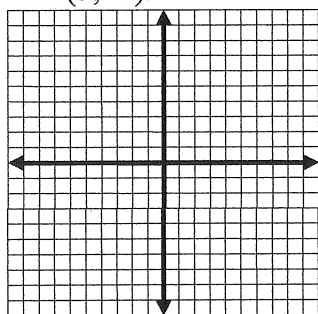
19) Graph: $4x - 5y = 25$



20) Graph a line with slope $-\frac{2}{3}$ through point $(-4,5)$.



21) Graph a line with slope 0 through the point $(5, -2)$.



Find the slope of the line passing through the points:

22) $(4, 2)$ and $(9, 7)$

23) $(6, 2)$ and $(-4, -1)$

24) $3x + 2y = 15$ slope =
 y-intercept =
 parallel slope =
 perpendicular slope =

25) $2y = 3(x - 10)$ slope =
 y-intercept =
 parallel slope =
 perpendicular slope =