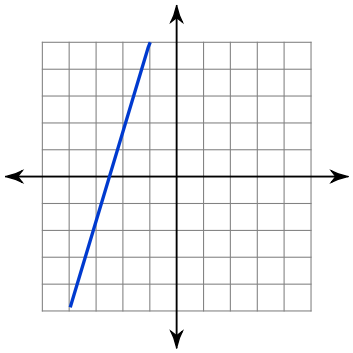
Algebra I Name_____

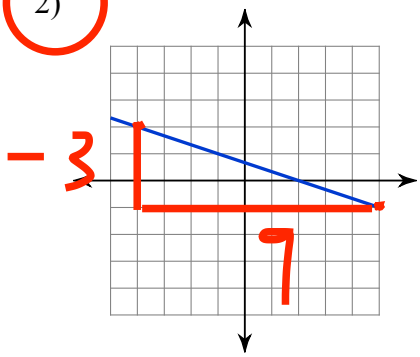
Slope/Slope-Intercept form Practice

Date_____ Period____

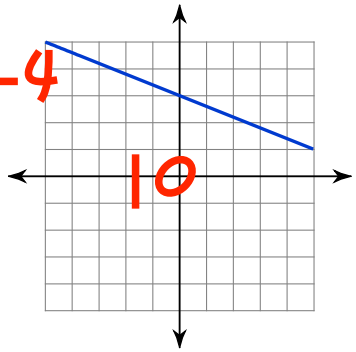
Find the slope of each line.

1) 

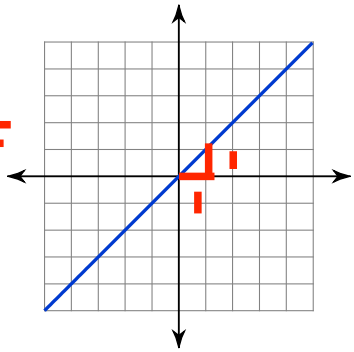
$\frac{10}{3}$

2) 

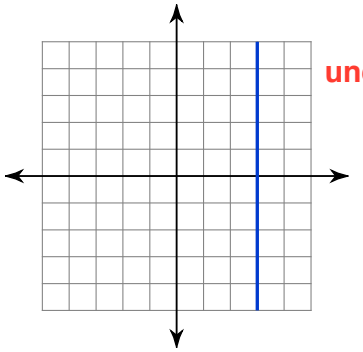
$-\frac{1}{3}$

3) 

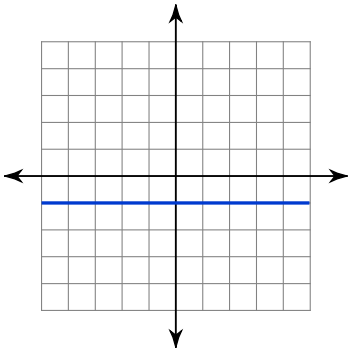
$\frac{-4}{10} = -\frac{2}{5}$

4) 

1

5) 

undefined

6) 

0

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

7) (16, 1), (17, 7)

8) (2, 8), (7, 8)

$\frac{8-8}{2-7} = \frac{0}{-5}$

9) (−16, 7), (−15, 17)

-15 - (-16) = 1
17 - 7 = 10

$\frac{10}{1} = 10$

10) (−11, 15), (−11, 6)

$= 0$

undefined

Find the slope and y-intercept of each equation.

11) $y + 3 = x$

12) $2y - 10 = -4x$

13) $-5 - y = -3x$

- y = -3x + 5
y = 3x-5
slope = 3
y -intercept = (0,-5)

14) $y = 5x$

y-intercept = (0,0)
slope = 5

15) $6 - 2y = -x$

-2y = -x -6
-2y/(-2) = (-x-6)/(-2)
y = 0.5x +3

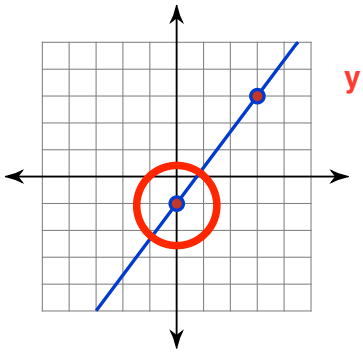
slope = 0.5
y-intercept = (0,3)

16) $5y + 10 = -2x$

y = 0.4x -2
slope = 0.4
y-intercept = (0,-2)

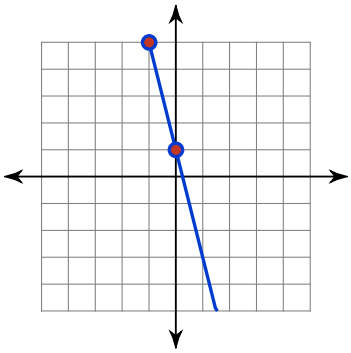
Write an equation for each line in Slope-Intercept Form

17)



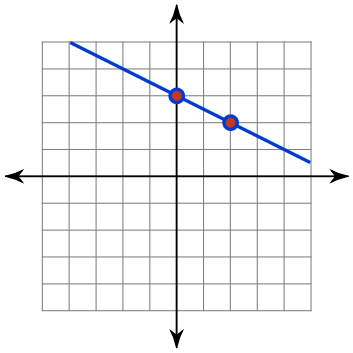
y = 4/3x - 1

18)



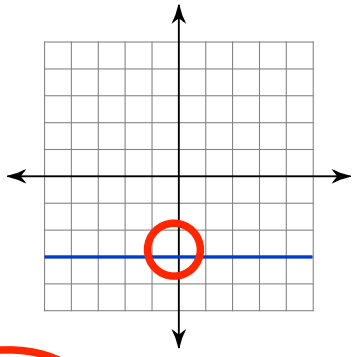
y = -4x + 1

19)



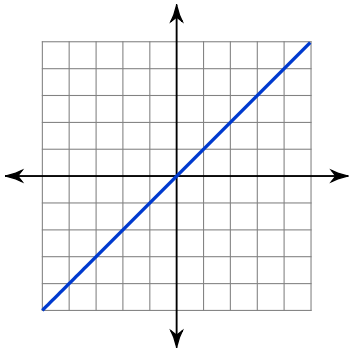
y = -0.5 x + 3

20)



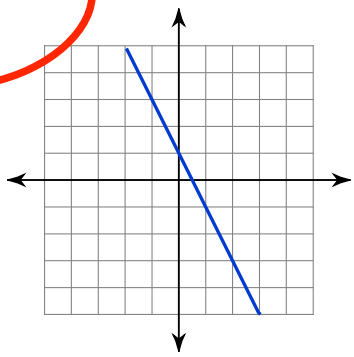
y = 0x -3
y = -3

21)



y = x

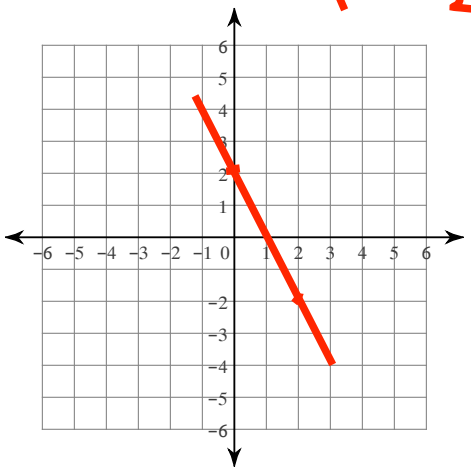
22)



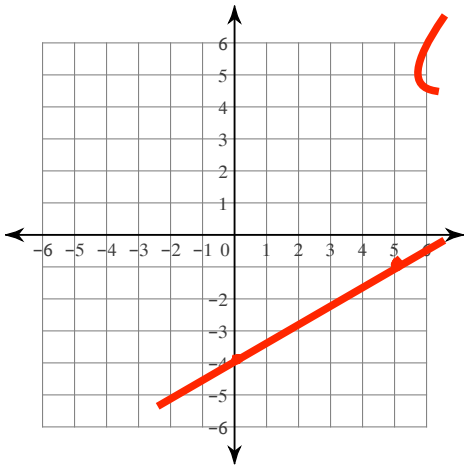
y =

Sketch the graph of each line.

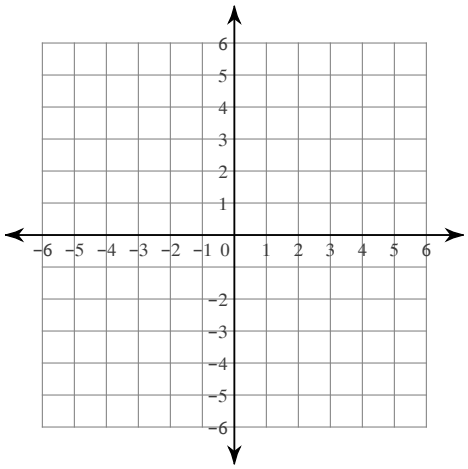
23) $y = -2x + 2$



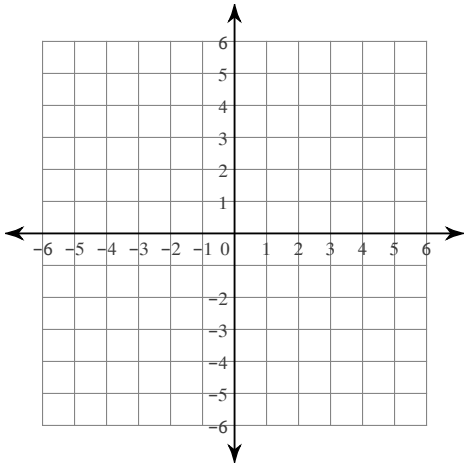
24) $y = \frac{3}{5}x - 4$



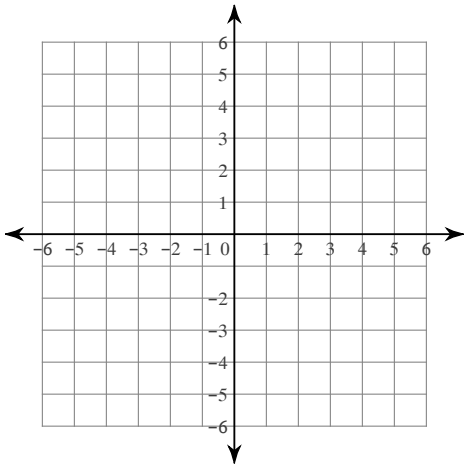
25) $y = \frac{1}{4}x + 1$



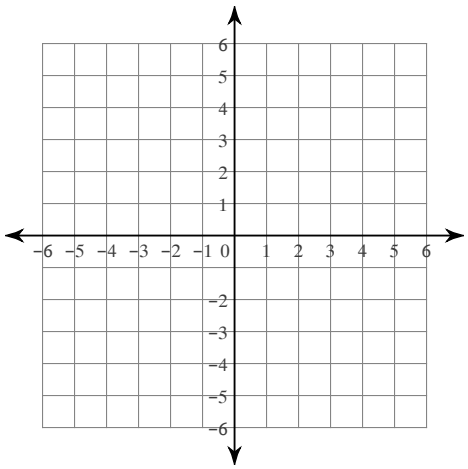
26) $y = x$



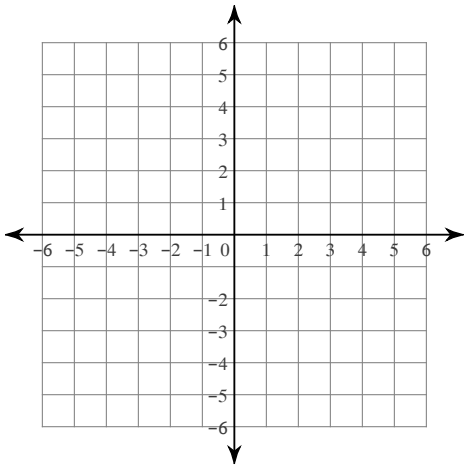
27) $y = -\frac{1}{3}x - 2$



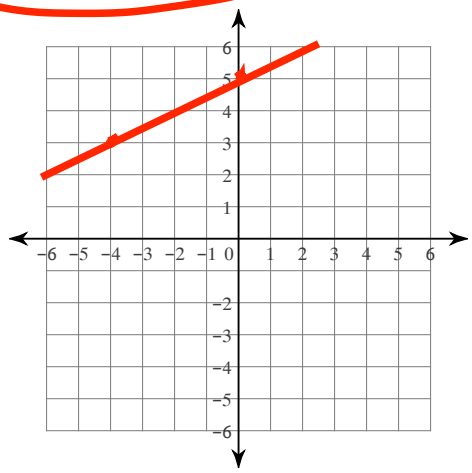
28) $y = -4$



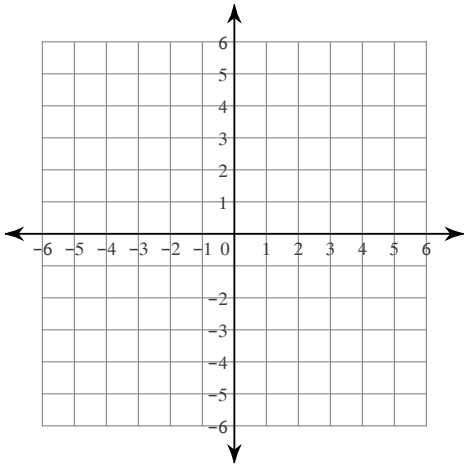
29) $y = -\frac{3}{4}x + 2$



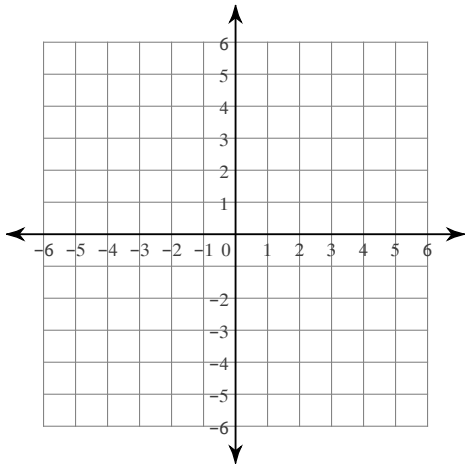
30) $y = \frac{2}{5}x + 5$



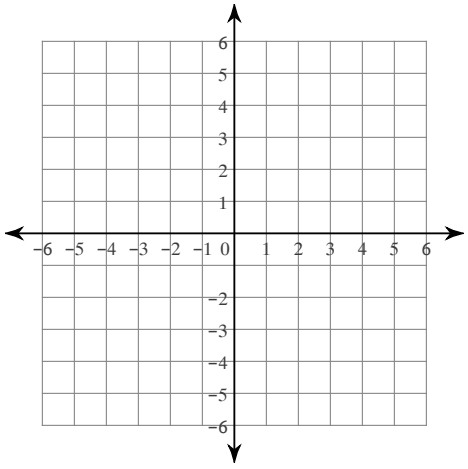
31) $y = -\frac{4}{5}x - 1$



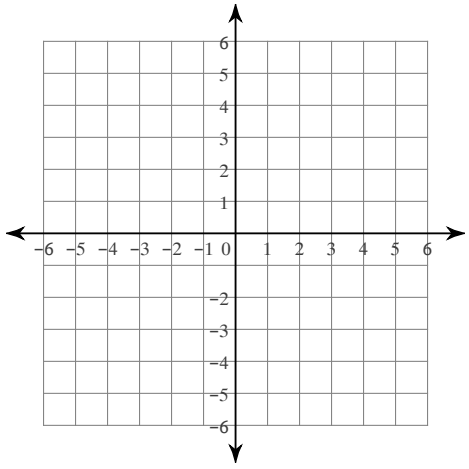
32) $y = -3x + 1$



33) $y = 2x$



34) $y = 4$



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

35) Slope $= -\frac{5}{3}$, y-intercept $= 1$

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

36) Slope $= 5$, y-intercept $= 2$

$y = 5x + 2$

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

37) through: $(-5, 0)$ and $(-4, 4)$

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

39) through: $(-4, 3)$ and $(-5, -2)$

40) through: $(5, -5)$ and $(0, -1)$