Algebra 2 Name_____

1-1 1-3 Quiz Review

Solve each equation.

1) $-9 = n - 8 + 3$

$\{-4\}$

2) $1 = n + 3 + 2$

$\{-4\}$

3) $1 - 4x + 4 = -7$

$\{3\}$

4) $1 = -2k + 2k$

No solution.

5) $-16 - 2m = -4(8m + 4)$

$\{0\}$

6) $-31 - 3p = 4(1 + 8p)$

$\{-1\}$

7) $26 + 5n = -7(8n + 5)$

$\{-1\}$

8) $-\frac{3}{4}x - \frac{4}{5} = -\frac{19}{10} + \frac{1}{4}x + 1 - \frac{7}{5}$

$\left\{\frac{3}{2}\right\}$

9) $-\frac{17}{4} + \frac{1}{2}r = \frac{5}{4}r + 1$

$\{-7\}$

10) $-\frac{3}{4}m + \frac{99}{32} = \frac{1}{8}m + \frac{37}{8}$

$\left\{-\frac{7}{4}\right\}$

Solve each equation for the indicated variable.

11) $g = ycx$, for x

$x = \frac{g}{yc}$

12) $\frac{m}{x} = n + p$, for x

$x = \frac{m}{n+p}$

13) $am = n - p$, for a

$a = \frac{n-p}{m}$

14) $a + c = r - d$, for a

$a = -c + r - d$

15) $z = b - m - a$, for a

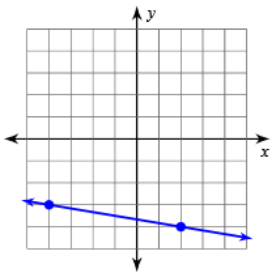
$a = -z + b - m$

16) $ak = w + v$, for a

$a = \frac{w+v}{k}$

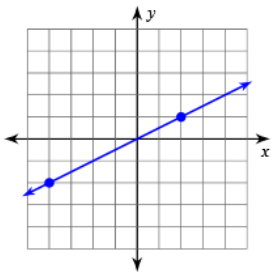
Find the slope of each line.

17)



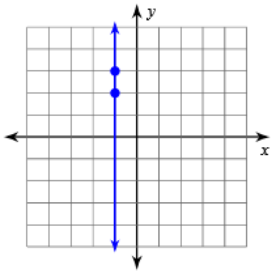
$-\frac{1}{6}$

18)



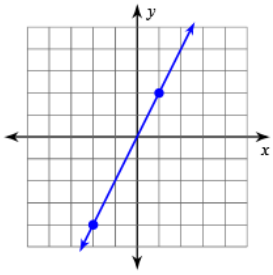
$\frac{1}{2}$

19)



Undefined

20)



2

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

21) $(-4, 8), (-11, -9)$

$\frac{17}{7}$

22) $(-17, 13), (-20, -9)$

$\frac{22}{3}$

23) $(-5, 17), (-12, 16)$

$\frac{1}{7}$

24) $(-11, -1), (-5, 3)$

$\frac{2}{3}$

Find the slope of each line.

25) $y = -3x - 3$

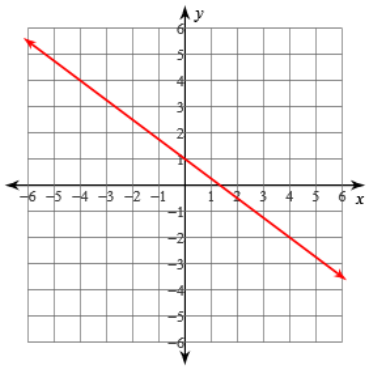
-3

26) $y = 4x + 2$

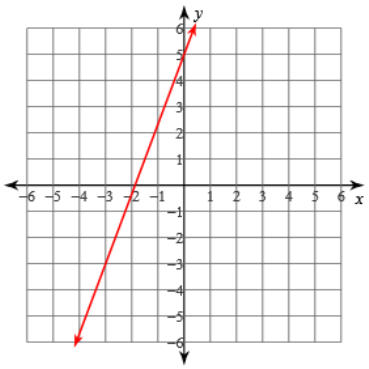
4

Sketch the graph of each line.

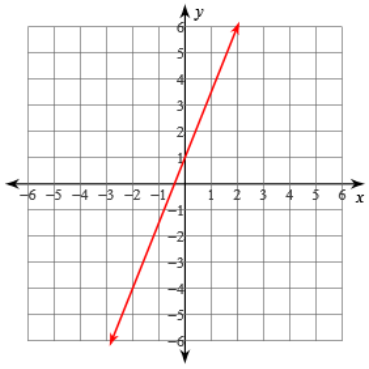
27) $y = -\frac{3}{4}x + 1$



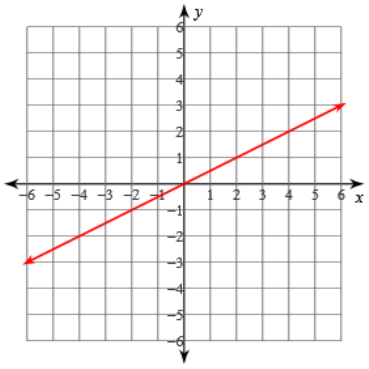
28) $y = \frac{8}{3}x + 5$



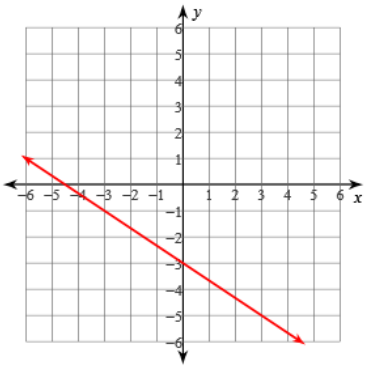
29) $y = \frac{5}{2}x + 1$



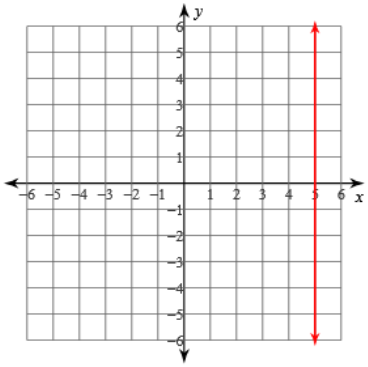
30) $y = \frac{1}{2}x$



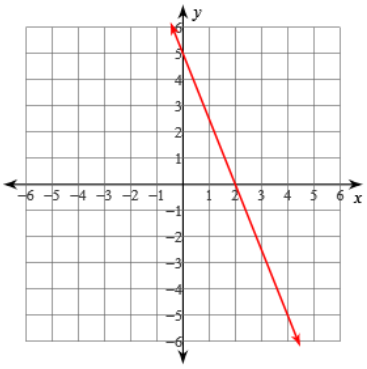
31) $y = -\frac{2}{3}x - 3$



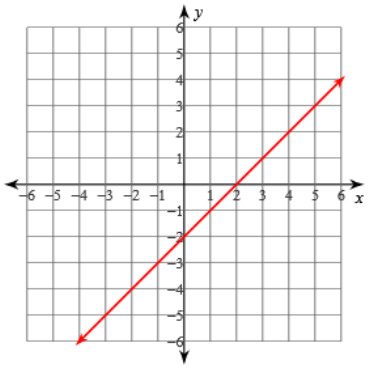
32) $x = 5$



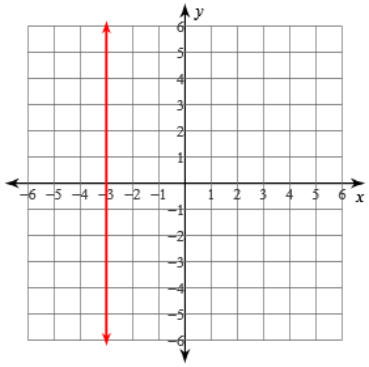
33) x-intercept = 2, y-intercept = 5



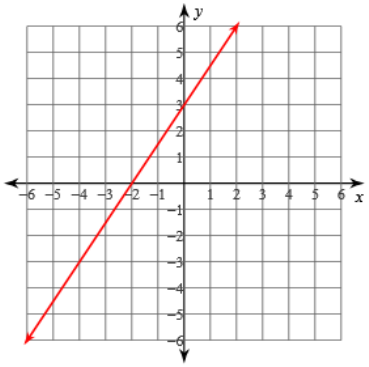
34) x-intercept = 2, y-intercept = –2



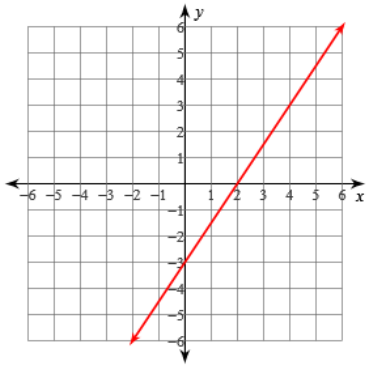
35) $x = -3$



36) $3x - 2y = -6$



37) $3x - 2y = 6$



38) $7x + 5y = -20$