

Algebra 2

Name _____

1-1 1-3 Quiz Review

Solve each equation.

1) $24 = x - 5x$

2) $1 + 8p + 3 = -4$

3) $3a - 5a = 16$

4) $-15 = x - 7 - 6$

5) $2(5m - 3) + 2 = -32 + 6m$

6) $-3(7r - 6) = -7r + 32$

7) $-4x - 34 = 8(6x - 5) + 6$

Handwritten solution for problem 7:
 $-4x - 34 = 48x - 40 + 6$
 $-34 = 52x - 34$
 $0 = 52x$
 $x = 0$

Handwritten solution for problem 8:
 $8) \frac{5}{x} - \frac{1}{2} = \frac{55}{8} - 2x$
 $15x - 9 = 110 - 36x$
 $+36x$
 $51x = 119 = \frac{2}{3}$

Handwritten solution for problem 10:
 $10) \frac{3}{2}m - \frac{10}{7} + \frac{15}{2} = \frac{143}{14} - \frac{1}{7}m + \frac{12}{7}$
 $-21m - 20 + 35 - 143 = -2m + 24$

Solve each equation for the indicated variable.

11) $z = am - b$, for a

$$\frac{z+b}{m} = a$$

12) $\frac{ac}{c} = \frac{rd}{c}$, for a

$$a = \frac{rd}{c}$$

13) $m + x = n + p$, for x

$$x = n + p - m$$

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

15) $xk = \frac{v}{w}$, for x

$$x = \frac{v}{wk}$$

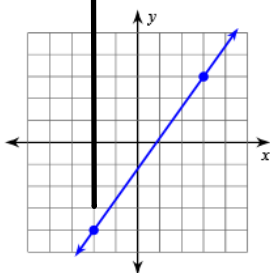
16) $c - x = r - d$, for x

$$-x = r - d - c$$

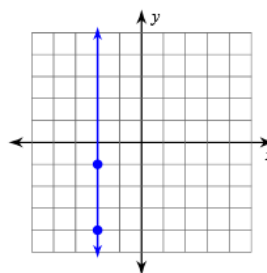
$$x = -r + d + c$$

Find the slope of each line.

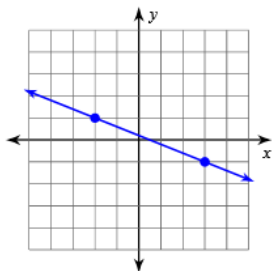
17)



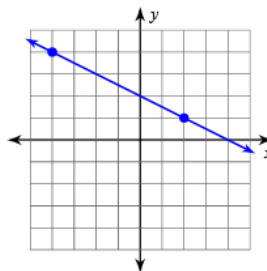
18)



19)



20)



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

21) $(-16, 10), (14, 2)$

22) $(0, 5), (-14, -2)$

23) $(12, 2), (-14, 2)$

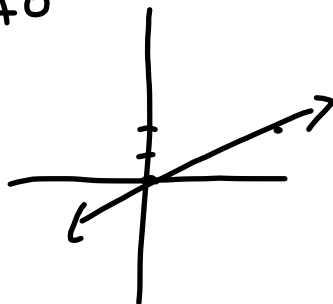
24) $(13, 1), (11, -2)$

$$\frac{2-2}{-14-12} = \frac{0}{-26} = 0$$

Find the slope of each line.

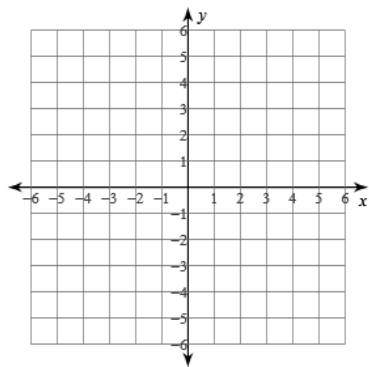
25) $y = \frac{2}{5}x + 0$

26) $y = -3x - 2$

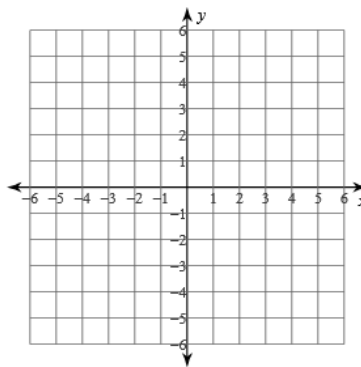


Sketch the graph of each line.

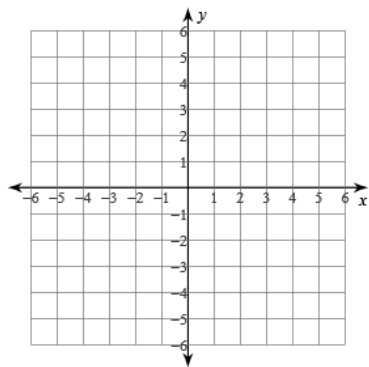
27) $y = \frac{1}{2}x - 1$



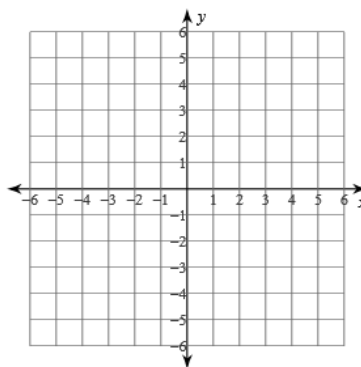
28) $y = \frac{1}{5}x + 4$



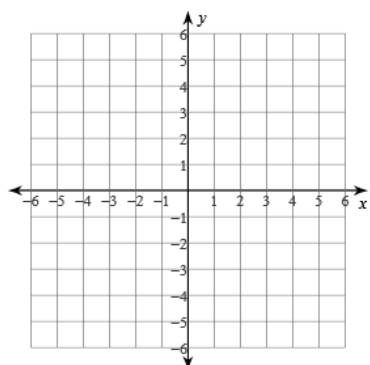
29) $y = x + 2$



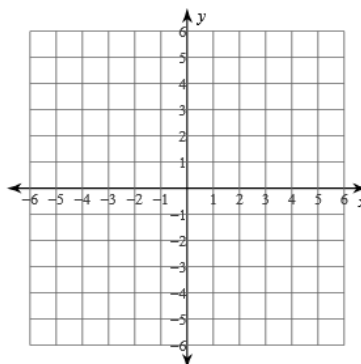
30) $y = -\frac{3}{5}x$



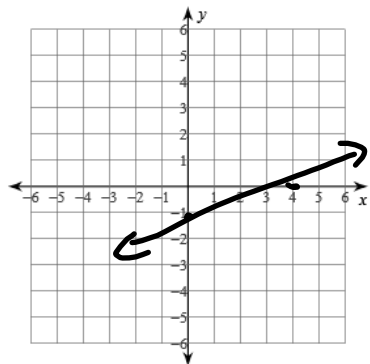
31) $y = \frac{7}{3}x + 4$



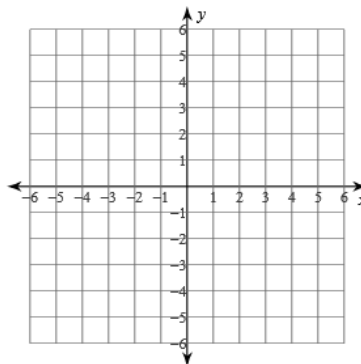
32) $y = -10x + 5$



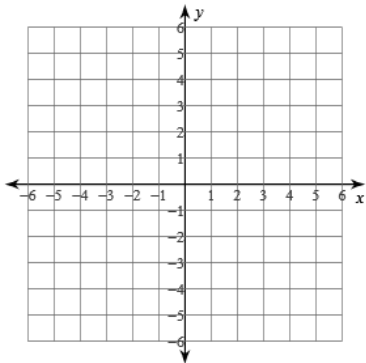
33) x-intercept = 4, y-intercept = -1



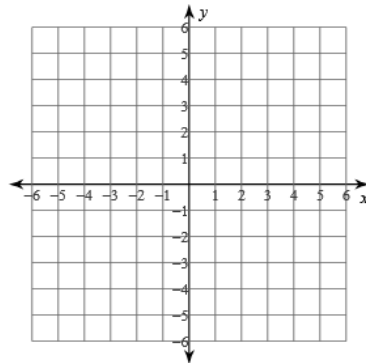
34) x-intercept = -5, y-intercept = -4



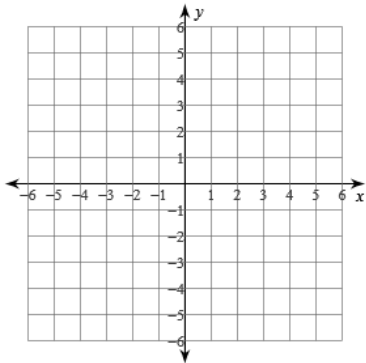
35) $x - 2y = -2$



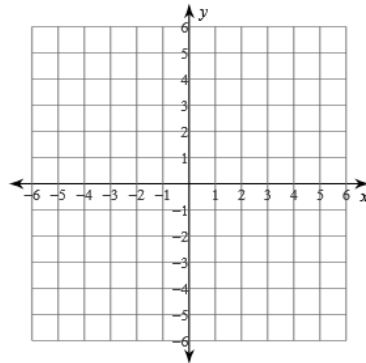
36) $2x + y = 4$



37) $x - y = -2$



38) $x = -3$



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Solve each equation.

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 $\{-6\}$

2) $1 + 8p + 3 = -4$

 $\{-1\}$

3) $3a - 5a = 16$

 $\{-8\}$

4) $-15 = x - 7 - 6$

 $\{-2\}$

5) $2(5m - 3) + 2 = -32 + 6m$

 $\{-7\}$

6) $-3(7r - 6) = -7r + 32$

 $\{-1\}$

7) $-4x - 34 = 8(6x - 5) + 6$

 $\{0\}$

8) $\frac{5}{6}x - \frac{1}{2} = \frac{55}{9} - 2x$

 $\left\{\frac{7}{3}\right\}$

9) $\frac{65}{42} + \frac{19}{6}r + \frac{5}{3}r = r - \frac{16}{7}$

 $\{-1\}$

10) $-\frac{3}{2}m - \frac{10}{7} + 2\frac{1}{2} - \frac{143}{14} = -\frac{1}{7}m + \frac{12}{7}$

 $\{-8\}$

Solve each equation for the indicated variable.

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$$a = \frac{z + b}{m}$$

12) $ac = rd$, for a

$$a = \frac{rd}{c}$$

13) $m + x = n + p$, for x

$$x = -m + n + p$$

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

$$x = c + d + r$$

15) $xk = \frac{v}{w}$, for x

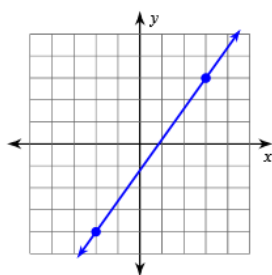
$$x = \frac{v}{kw}$$

16) $c - x = r - d$, for x

$$x = c - r + d$$

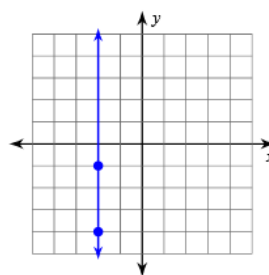
Find the slope of each line.

17)



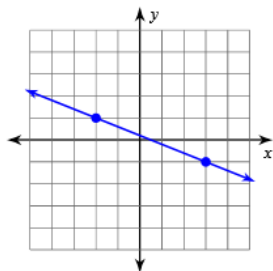
$$\frac{7}{5}$$

18)



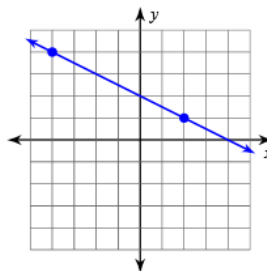
Undefined

19)



$$-\frac{2}{5}$$

20)



$$-\frac{1}{2}$$

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

21) $(-16, 10), (14, 2)$

$$-\frac{4}{15}$$

22) $(0, 5), (-14, -2)$

$$\frac{1}{2}$$

23) $(12, 2), (-14, 2)$

$$0$$

24) $(13, 1), (11, -2)$

$$\frac{3}{2}$$

Find the slope of each line.

25) $y = \frac{2}{5}x$

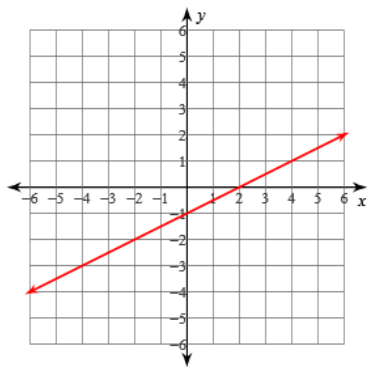
$$\frac{2}{5}$$

26) $y = -3x - 2$

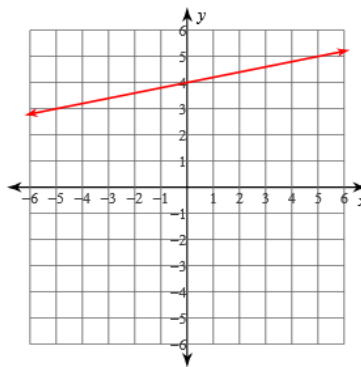
$$-3$$

Sketch the graph of each line.

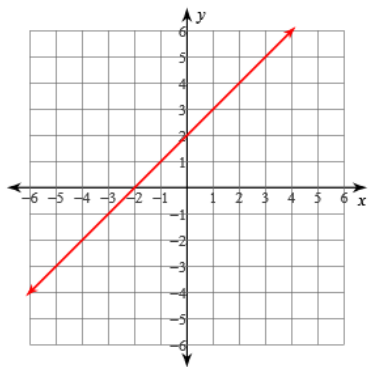
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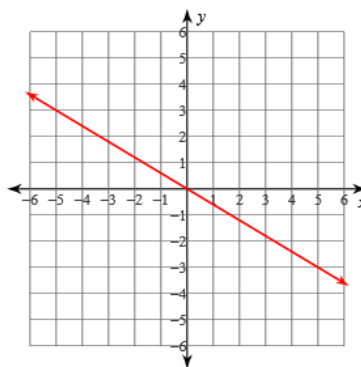
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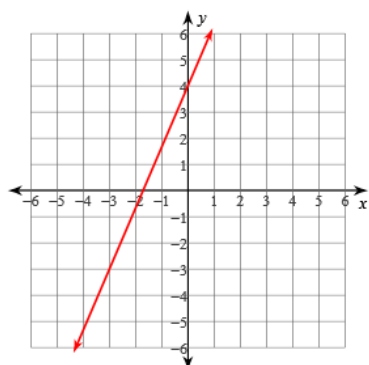
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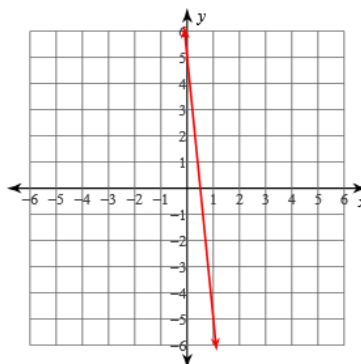
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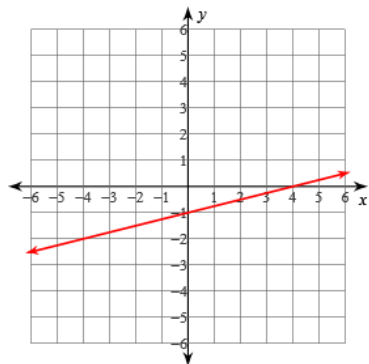
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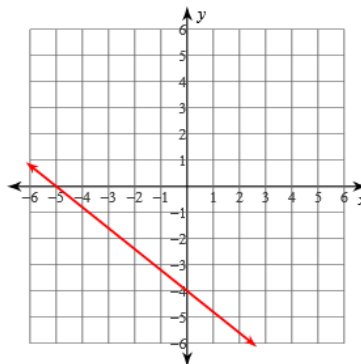
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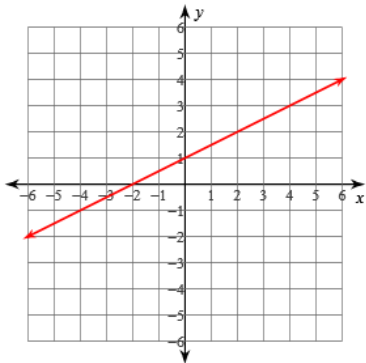
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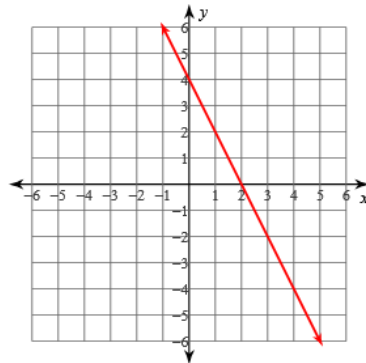
34) x-intercept = -5, y-intercept = -4



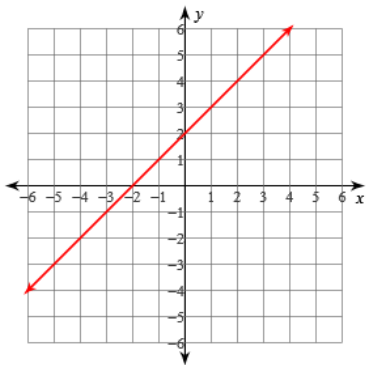
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