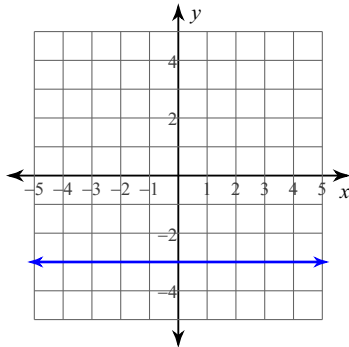


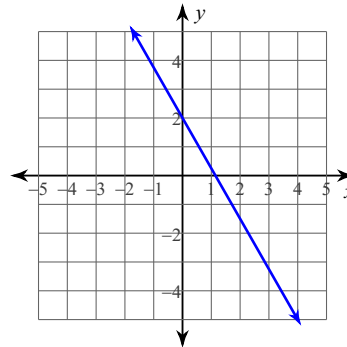
Unit 3 Test - REVIEW

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

1)



2)



3) $2x - 13y = -68$

4) $5x - 3y = 24$

5) $y - 1 = -3(x + 1)$

6) $y + 2 = -2(x - 1)$

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

7) through: $(3, -3)$, slope = 1

8) through: $(-1, 3)$, slope = $\frac{1}{5}$

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

9) through: $(2, -2)$, slope = $-\frac{1}{2}$

10) through: $(0, -1)$, slope = $-\frac{1}{4}$

Write the slope-intercept form of the equation of the line described.

11) through: $(5, -5)$, parallel to $y = -\frac{9}{5}x + 2$

12) through: $(-4, 0)$, parallel to $y = -2$

13) through: $(5, 2)$, parallel to $y = -\frac{3}{5}x - 5$

14) through: $(3, 4)$, parallel to $y = \frac{5}{3}x - 3$

15) through: $(1, 4)$, perp. to $y = -\frac{1}{3}x - 1$

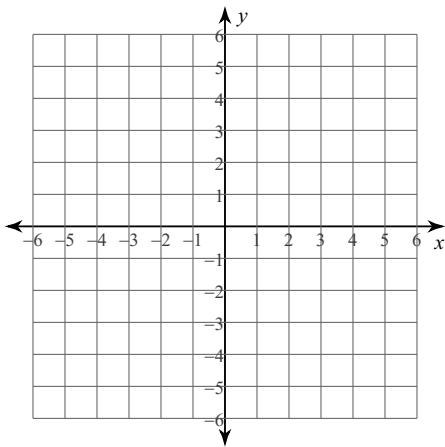
16) through: $(3, -5)$, perp. to $y = 4$

17) through: $(-1, 5)$, perp. to $y = \frac{1}{7}x - 3$

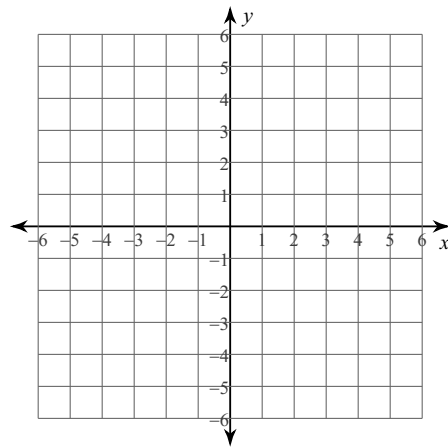
18) through: $(5, 5)$, perp. to $y = -5x - 5$

Sketch the graph of each line.

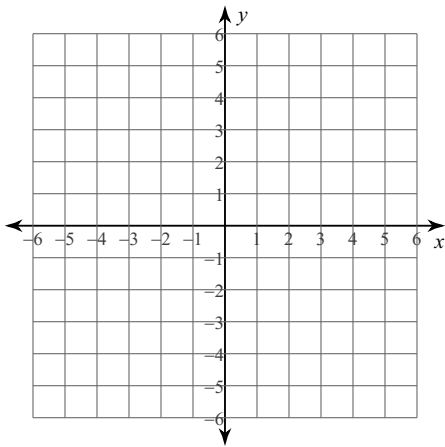
19) x -intercept = -5 , y -intercept = 3



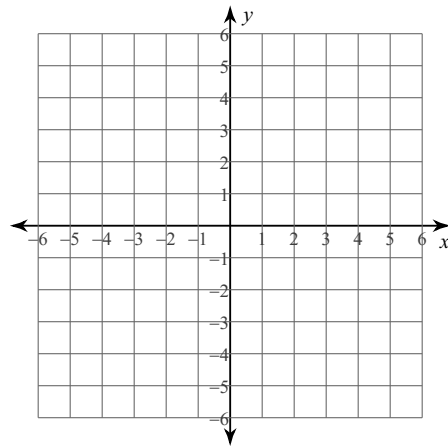
20) x -intercept = 2 , y -intercept = 2



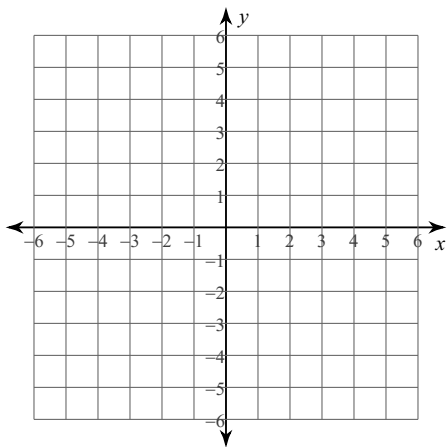
21) x -intercept = -1 , y -intercept = -5



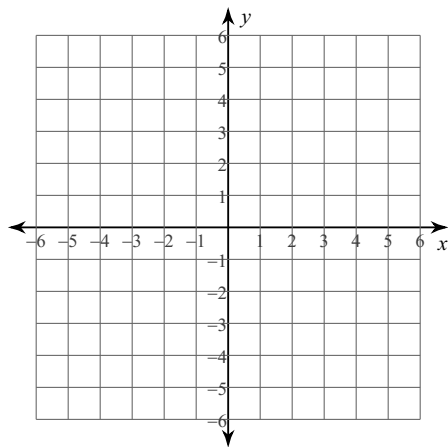
22) x -intercept = 3 , y -intercept = 5



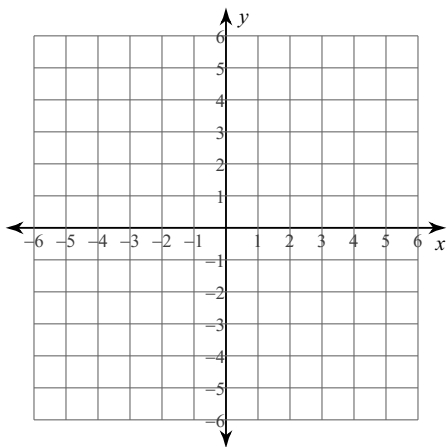
23) $x - y = -3$



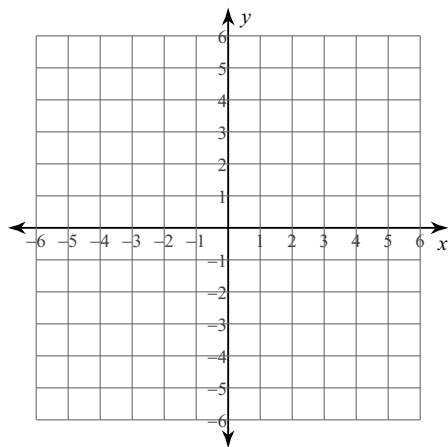
24) $x + 2y = -8$



25) $x + 2y = 6$



26) $3x - 4y = -12$



Determine the intercepts for the standard form equation.

27) $4x - 5y = -10$

$x =$ _____

$y =$ _____

28) $x + 5y = -12$

$x =$ _____

$y =$ _____

29) $3x + y = -1$

$x =$ _____

$y =$ _____

30) $2x - y = -4$

$x =$ _____

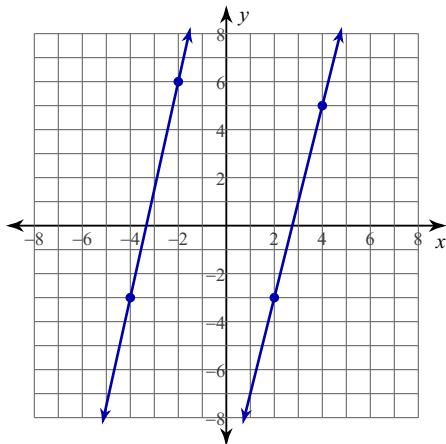
$y =$ _____

Determine if the lines are parallel, perpendicular, or neither.

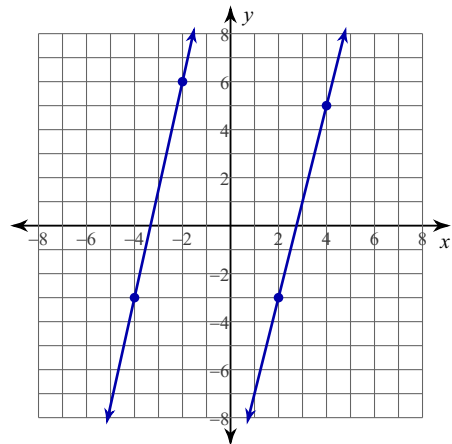
31) $y = 3x - 2$
 $x - 3y = -18$

32) Line AB: $(9, -4)$ and $(0, -2)$
Line CD: $(2, -6)$ and $(-2, -12)$

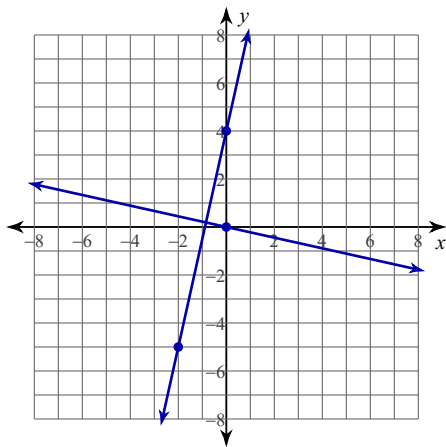
33)



34)



35)



Answers to Unit 3 Test - REVIEW

1) $y = -3$

2) $y = -\frac{7}{4}x + 2$

3) $y = \frac{2}{13}x + \frac{68}{13}$

4) $y = \frac{5}{3}x - 8$

5) $y = -3x - 2$

6) $y = -2x$

7) $y + 3 = x - 3$

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

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

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

11) $y = -\frac{9}{5}x + 4$

12) $y = 0$

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

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

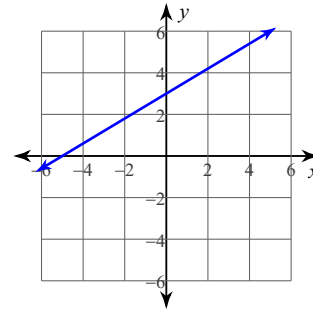
15) $y = 3x + 1$

16) $x = 3$

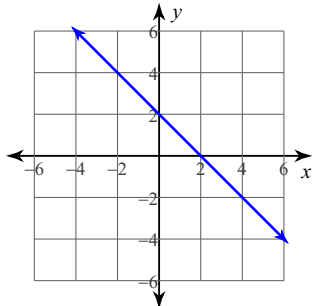
17) $y = -7x - 2$

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

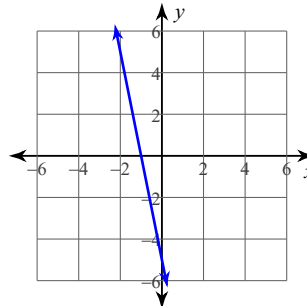
19)



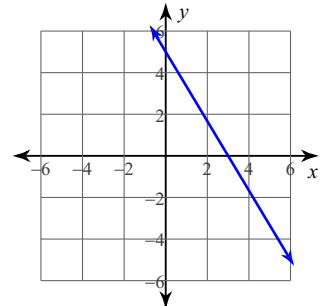
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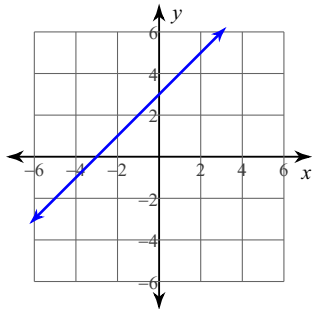
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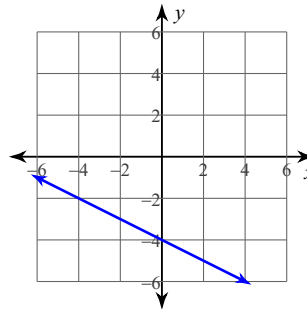
22)



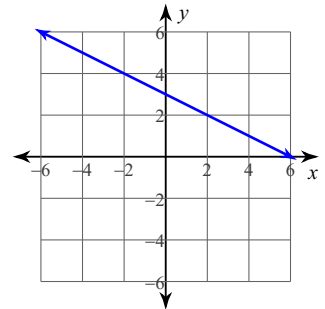
23)



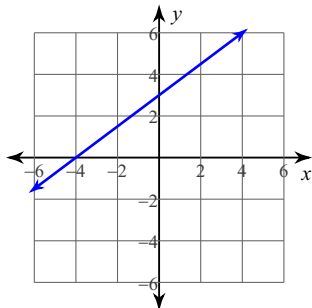
24)



25)



26)



27) $x = -\frac{5}{2}$ and $y = 2$

28) $x = -12$ and $y = -\frac{12}{5}$

29) $x = -\frac{1}{3}$ and $y = -1$

30) $x = -2$ and $y = 4$

31)

32)

33)

34)

35)