

## Prior Knowledge Review 2

**Evaluate each function.**

1)  $f(x) = x^2 - 3x$ ; Find  $f(1)$

2)  $p(t) = -4t + 1$ ; Find  $p(10)$

3)  $f(n) = n^2 + 4$ ; Find  $f(-7)$

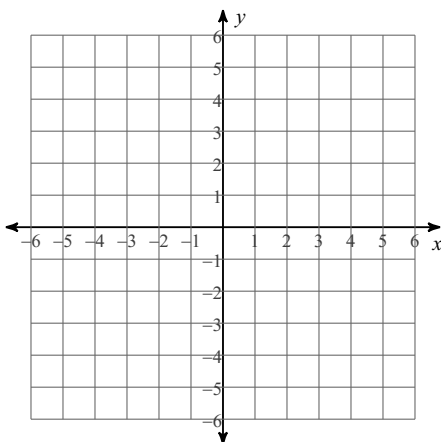
4)  $w(t) = t^2 - 2$ ; Find  $w(-1)$

5)  $f(a) = a^2 + 4a$ ; Find  $f(-3)$

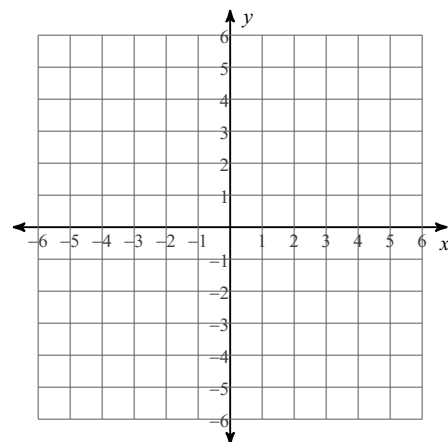
6)  $k(n) = 3n - 4$ ; Find  $k(6)$

**Sketch the graph of each line.**

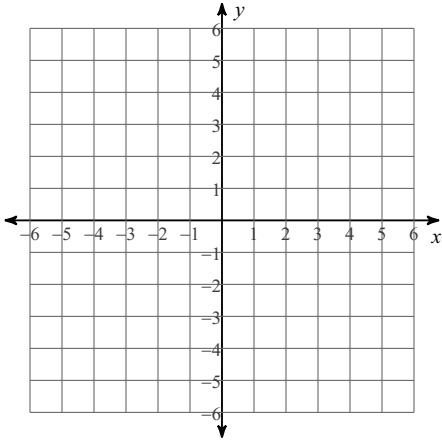
7)  $x$ -intercept = 2,  $y$ -intercept = 1



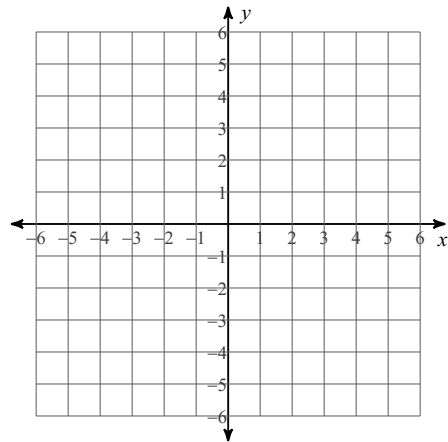
8)  $y = -2$



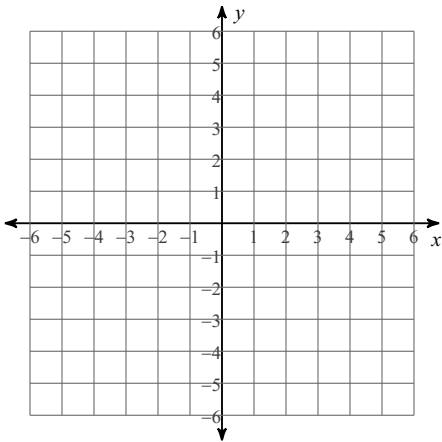
9)  $x = -2$



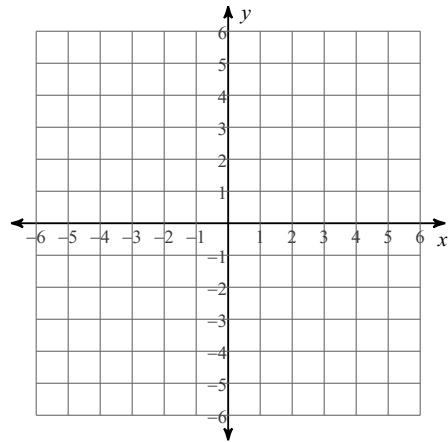
10)  $y = \frac{5}{4}x + 2$



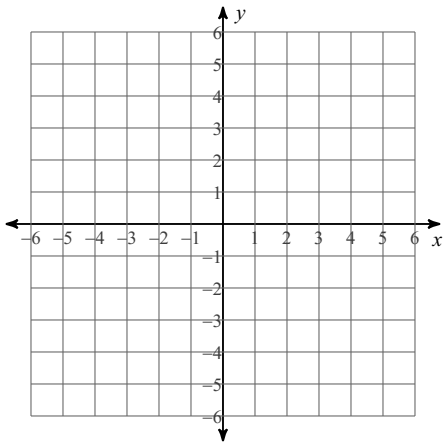
11)  $y = -\frac{3}{2}x - 2$



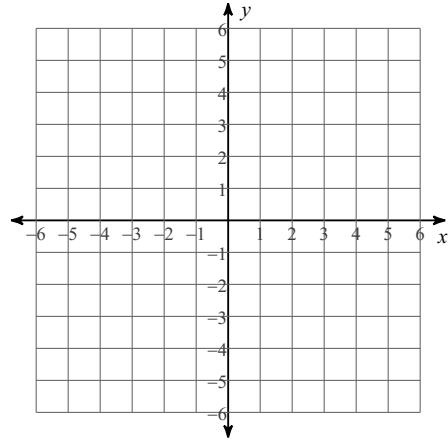
12)  $y = \frac{1}{4}x - 5$



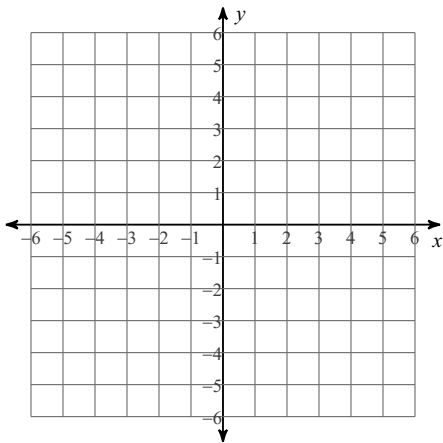
13)  $y = \frac{4}{3}x - 1$



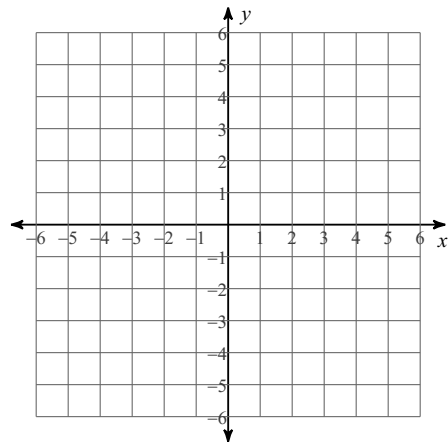
14)  $x - 4y = -4$



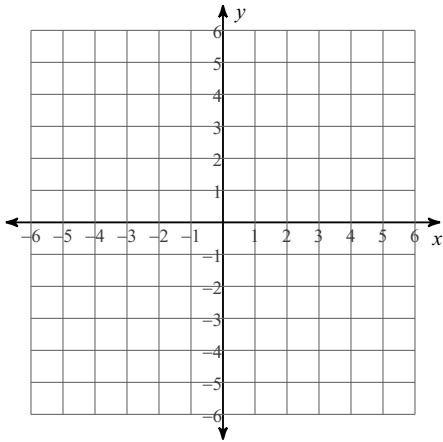
15)  $3x + 2y = 4$



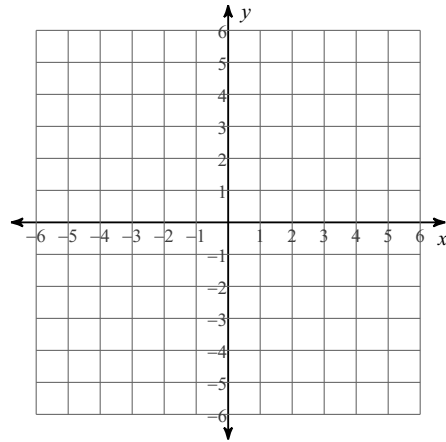
16)  $8x + 5y = 20$



17)  $y = 3$

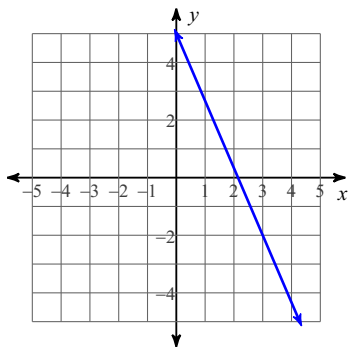


18)  $7x + 3y = -9$

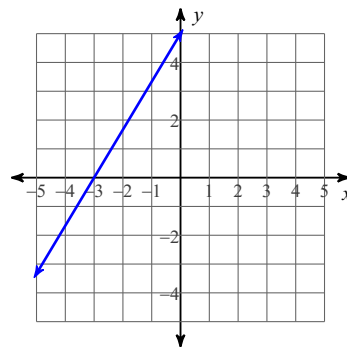


**Write the slope-intercept form of the equation of each line.**

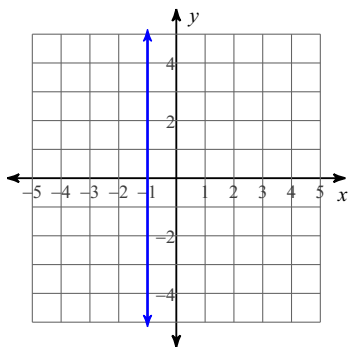
19)



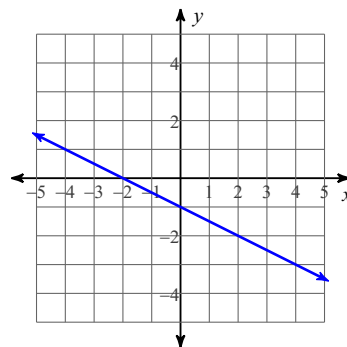
20)



21)



22)



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

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

24) Slope =  $\frac{9}{2}$ , y-intercept =  $4$

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

25) through:  $(3, 0)$ , slope = undefined

26) through:  $(-4, 1)$ , slope =  $-\frac{3}{4}$

27) through:  $(3, 1)$ , slope =  $\frac{2}{3}$

28) through:  $(3, -5)$ , slope =  $-3$

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

29) through:  $(0, -5)$  and  $(2, -2)$

30) through:  $(0, 2)$  and  $(3, -5)$

31) through:  $(-4, -4)$  and  $(-2, 2)$

32) through:  $(-1, -5)$  and  $(3, -1)$

**Simplify.**

33)  $\sqrt{175}$

34)  $\sqrt{63}$

35)  $\sqrt{75}$

36)  $\sqrt{196}$

37)  $\sqrt{288}$

38)  $\sqrt{72}$

39)  $\sqrt{20}$

40)  $\sqrt{192}$

41)  $5\sqrt{200}$

42)  $3\sqrt{20}$

$$43) \frac{\sqrt{8}}{\sqrt{2}}$$

$$44) \frac{\sqrt{8}}{\sqrt{50}}$$

$$45) \frac{\sqrt{15}}{\sqrt{27}}$$

$$46) \frac{\sqrt{2}}{\sqrt{9}}$$

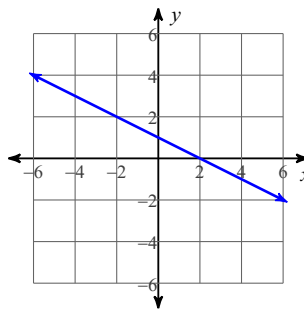
## Answers to Prior Knowledge Review 2 (ID: 1)

1) -2  
5) -3

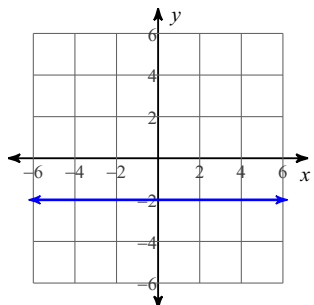
2) -39  
6) 14

3) 53  
7)

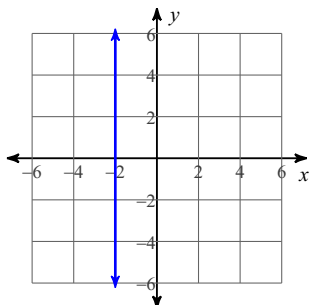
4) -1



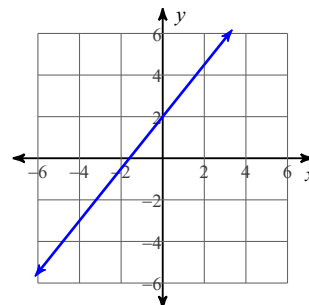
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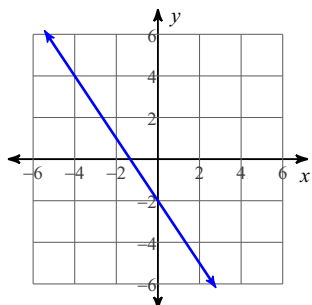
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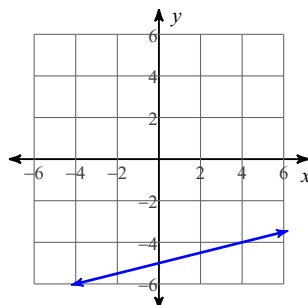
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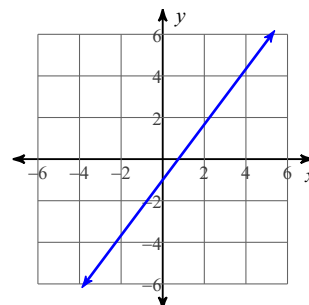
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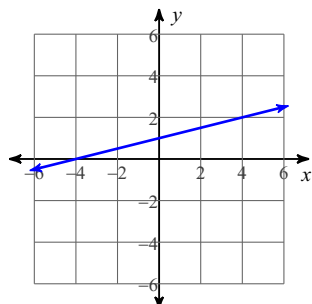
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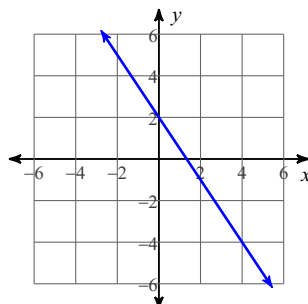
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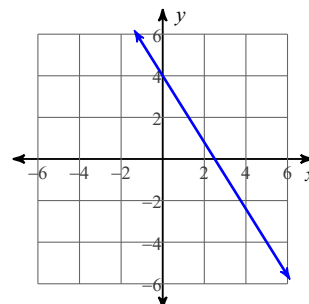
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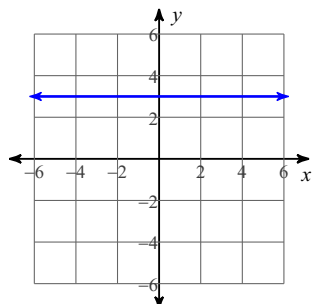
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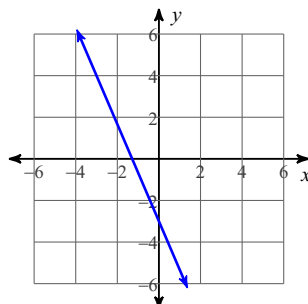
16)



17)



18)



19)  $y = -\frac{7}{3}x + 5$

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

21)  $x = -1$

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

23)  $y = -2x + 5$

24)  $y = \frac{9}{2}x + 4$

25)  $x = 3$

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

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



$$28) y = -3x + 4$$

$$32) y = x - 4$$

$$36) 14$$

$$40) 8\sqrt{3}$$

$$44) \frac{2}{5}$$

$$29) y = \frac{3}{2}x - 5$$

$$33) 5\sqrt{7}$$

$$37) 12\sqrt{2}$$

$$41) 50\sqrt{2}$$

$$45) \frac{\sqrt{5}}{3}$$

$$30) y = -\frac{7}{3}x + 2$$

$$34) 3\sqrt{7}$$

$$38) 6\sqrt{2}$$

$$42) 6\sqrt{5}$$

$$46) \frac{\sqrt{2}}{3}$$

$$31) y = 3x + 8$$

$$35) 5\sqrt{3}$$

$$39) 2\sqrt{5}$$

$$43) 2$$