

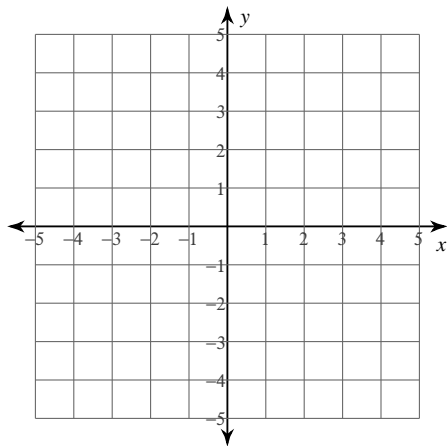
**Brain Warm-up**

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**Solve each system by graphing.**

1)  $y = -x - 2$

$y = \frac{2}{3}x + 3$

**Solve each system by substitution.**

3)  $y = -3x - 1$

$-2x + 4y = -4$

**Solve each system by elimination.**

2)  $3x + 3y = 0$

$2x - 4y = -12$

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

4)  $(10, -3), (3, -6)$

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

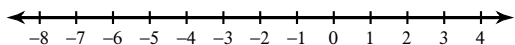
5) through:  $(-2, 3)$  and  $(2, -1)$

**Draw a percent scale and estimate.**

6) What percent of 158 is 156?

**Solve each compound inequality and graph its solution.**

7)  $p - 1 < -4$  or  $p - 3 > -3$



**Find the distance between each pair of points.**

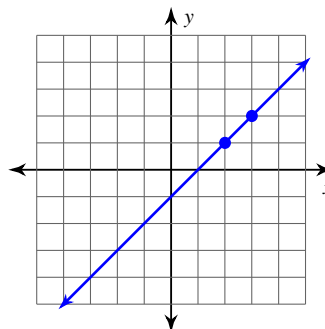
9)  $(2, -2)$ ,  $(2, 2)$

**Solve each inequality.**

8)  $-3(a - 1) < 3 - 3a$

**Find the slope of each line.**

10)



# Answers to Brain Warm-up (ID: 1)

1)  $(-3, 1)$

2)  $(-2, 2)$

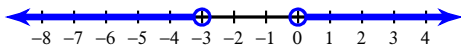
3)  $(0, -1)$

4)  $\frac{3}{7}$

5)  $y = -x + 1$

6) 98.7%

7)  $p < -3$  or  $p > 0$  :



8) No solution.

9) 4

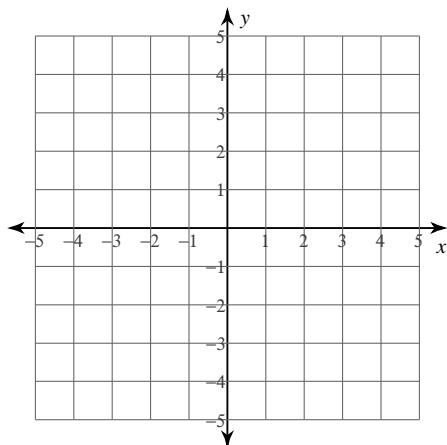
10) 1

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**Solve each system by graphing.**

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

**Solve each system by elimination.**

2)  $-3x - 3y = -3$   
 $-4x - 4y = 4$

**Solve each system by substitution.**

3)  $-x + 4y = -3$   
 $y = -4x - 5$

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

4)  $(-1, 9), (-6, 6)$

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

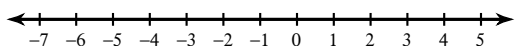
5) through:  $(0, -2)$  and  $(-5, 0)$

**Draw a percent scale and estimate.**

6) 48% of 142 is what?

**Solve each compound inequality and graph its solution.**

7)  $a - 2 \leq -5$  or  $a - 3 > -4$

**Solve each inequality.**

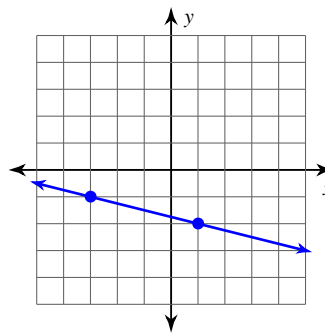
8)  $3(1 + 2x) \leq 3x$

**Find the distance between each pair of points.**

9)  $(-1, 1)$ ,  $(-2, -1)$

**Find the slope of each line.**

10)



## Answers to Brain Warm-up (ID: 2)

1)  $(1, -1)$

2) No solution

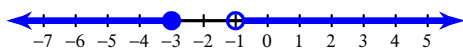
3)  $(-1, -1)$

4)  $\frac{3}{5}$

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

6) 68.2

7)  $a \leq -3$  or  $a > -1$  :



8)  $x \leq -1$

9)  $\sqrt{5}$

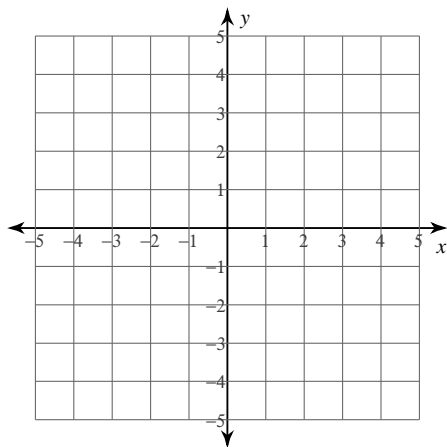
10)  $-\frac{1}{4}$

**Brain Warm-up**

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**Solve each system by graphing.**

1)  $y = x + 3$   
 $y = 6x - 2$

**Solve each system by elimination.**

2)  $-3x + 4y = 5$   
 $-2x + 3y = 4$

**Solve each system by substitution.**

3)  $-3x - 3y = 3$   
 $y = 4x - 1$

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

4)  $(-19, 0), (6, 1)$

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

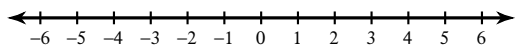
5) through:  $(4, 5)$  and  $(-4, -3)$

**Draw a percent scale and estimate.**

6) 1% of 13 is what?

**Solve each compound inequality and graph its solution.**

7)  $r - 1 \leq -1$  and  $\frac{r}{2} > -1$

**Solve each inequality.**

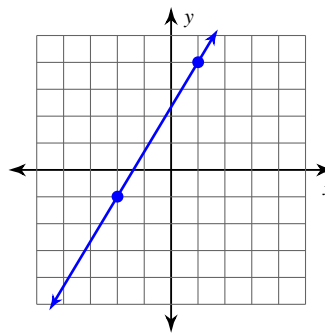
8)  $2x + 10 \leq 2(1 + 3x)$

**Find the distance between each pair of points.**

9)  $(2, 1)$ ,  $(-1, 1)$

**Find the slope of each line.**

10)





# Answers to Brain Warm-up (ID: 3)

1)  $(1, 4)$

2)  $(1, 2)$

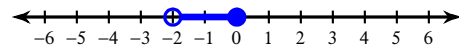
3)  $(0, -1)$

4)  $\frac{1}{25}$

5)  $y = x + 1$

6)  $0.13$

7)  $-2 < r \leq 0$  :



8)  $x \geq 2$

9)  $3$

10)  $\frac{5}{3}$

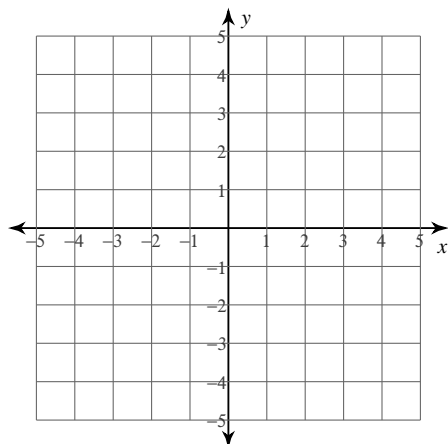
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**Solve each system by graphing.**

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

$y = \frac{5}{2}x - 4$

**Solve each system by elimination.**

2)  $-3x + 3y = -6$   
 $2x + 2y = 4$

**Solve each system by substitution.**

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

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

4)  $(-5, 1), (-14, 4)$

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

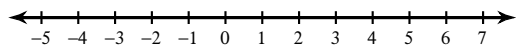
5) through:  $(5, -1)$  and  $(-3, 1)$

**Draw a percent scale and estimate.**

6) What percent of 122 is 47?

**Solve each compound inequality and graph its solution.**

7)  $3x \geq 6$  or  $3x < 0$



**Solve each inequality.**

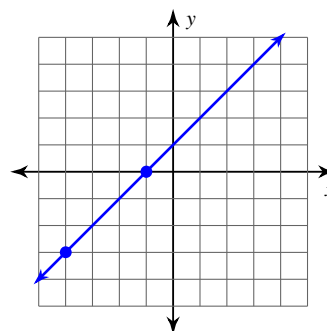
8)  $-7 - b > -2(b + 2)$

**Find the distance between each pair of points.**

9)  $(-1, 1)$ ,  $(-2, -2)$

**Find the slope of each line.**

10)



# Answers to Brain Warm-up (ID: 4)

1)  $(2, 1)$

2)  $(2, 0)$

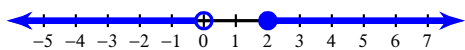
3)  $(0, -2)$

4)  $-\frac{1}{3}$

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

6)  $38.5\%$

7)  $x \geq 2$  or  $x < 0$ :



8)  $b > 3$

9)  $\sqrt{10}$

10)  $1$