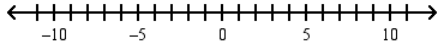
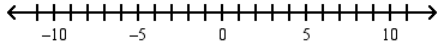


## Assignment 15

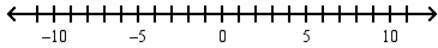
1. Graph:  $x \leq -1$



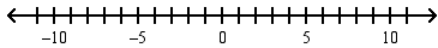
2. Graph:  $x > 6$



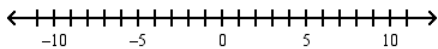
3. Graph:  $x \geq 3$



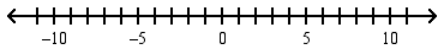
4. Graph:  $x > 0$



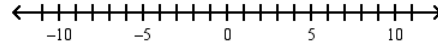
5. Graph:  $x < -7$



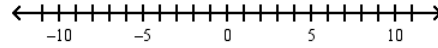
6. Graph:  $x \geq -9$



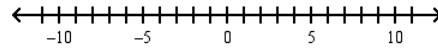
1. Solve and graph:  $2x + 5 > -5$



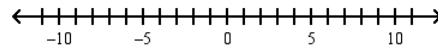
2. Solve and graph:  $3 - 4x \leq -5$



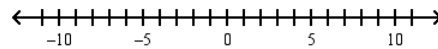
3. Solve and graph:  $2 < 8 - x$



4. Solve and graph:  $12 \geq -9 + 3x$



5. Solve and graph:  $15 - x \leq 20$



Name: \_\_\_\_\_

Solve each equation for the given variable.

1.  $2(x - 5) = x + 4$

2.  $3y + 2 = 8 - (y + 6)$

3.  $8(y + 1) = 10 + 2(y - 7)$

4.  $3a - 4(a - 1) = 5(a + 2) + 6$

5.  $5 - (x - 2) = 2 + 4(x + 5)$

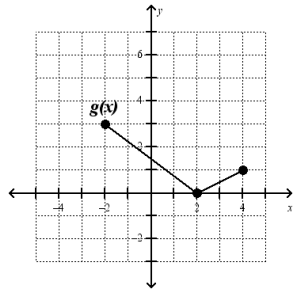
## Function Practice

1.

Let  $f(x) = -\frac{2}{5}x$ , find:

- $f(10)$
- $f(-15)$
- $f(-20)$

2.  $g(x)$  is shown graph  $f(x) = g(x+2) - 1$ .



3.

Let  $f(x) = x^2 + 3$ , find:

- $f(-2)$
- $f(-5)$
- $f(2)$

4.

Let  $h(x) = \frac{3}{4}x + 2$  find:

- $h(4)$
- $h(12)$
- $h(-8)$

## Systems Review: Solve each system.

1.

$$\begin{aligned} 3x &= 2y \\ 3x + y &= 18 \end{aligned}$$

2.

$$\begin{aligned} 5x &= 2y \\ 6x - 2y &= 4 \end{aligned}$$

3.

$$\begin{aligned} 2x &= 3y \\ x + 4y &= 33 \end{aligned}$$

4.

$$\begin{aligned} y &= 3x + 1 \\ 5x - y &= 1 \end{aligned}$$

Graph each system and classify as independent and consistent, independent and inconsistent, or dependent.

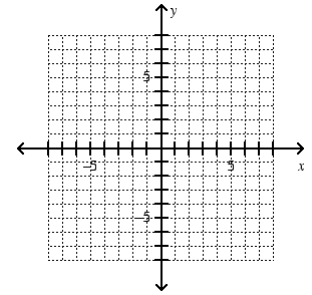
1.

$$\begin{aligned} y &= -\frac{1}{2}x + 5 \\ x &= -2 \end{aligned}$$

Classification:

\_\_\_\_\_

Solution: \_\_\_\_\_



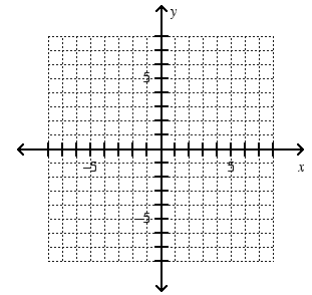
2.

$$\begin{aligned} y &= -\frac{3}{2}x + 2 \\ 3x + 2y &= -4 \end{aligned}$$

Classification:

\_\_\_\_\_

Solution: \_\_\_\_\_



3.

$$\begin{aligned} y &= 2x + 4 \\ 6x - 3y &= -12 \end{aligned}$$

Classification:

\_\_\_\_\_

Solution: \_\_\_\_\_

