ALGEBRA 1
UNIT: FUNCTION ESSENTIALS
HOMEWORK

NAME
DATE
HOUR

## Is the Ordered Pair a Solution?

**Directions:** Solve/Answer the following questions. Show all work!!!

1. Determine whether the given point $(2,\ 5)$ is a solution of the equation $y = 3x - 1$.

2. Does the point $(7,\ 1)$ lie on the line defined by $y = 2x + 5$?

3. Does the point $(2,\ -3)$ lie on the line represented by the equation $3x - y = 3$?

4. Does the point $(3,\ -\frac{1}{5})$ lie on the line defined by $2x + 5y = 5$?

5. Does the point $(\frac{3}{4},\ -1)$ lie on the line defined by $12x - y = 8$?

Determine whether the ordered pair satisfies the equation.

6. $(-2,\ 3)$; $y = -3x - 3$

7. $(5,\ 12)$; $y = -3x - 3$

8. $(-2,\ 3)$; $3 + y = x^2 - x$

9. $(1,\ -3)$; $3 + y = x^2 - x$

Student Name: _____ Score:

## Yes/No

Does the given ordered pair satisfy the linear equation?

| Equation | Ordered Pair | Yes/No |
|---|---|---|
| $3x + 2y = 1$ | $(1, -1)$ | |
| $4y - 3x = 6$ | $(2, 3)$ | |
| $2x + 5y = 1$ | $(2, -1)$ | |
| $x - 5y = 10$ | $(0, -2)$ | |
| $5x - y = -12$ | $(-4, 6)$ | |
| $9x + 4y + 5 = 0$ | $(-1, 1)$ | |
| $4x - y = 0$ | $(2, 4)$ | |
| $x - y + 4 = 0$ | $(6, 6)$ | |
| $7x - 11y = 2$ | $(4, -5)$ | |
| $6x - 5y = -9$ | $(1, 3)$ | |

Work Space

Math 1: Unit 5 NAME: _____

# EVALUATING FUNCTIONS WORKSHEET

1) Let $g(x) = -5x + 2$. Evaluate each of the following:

a) $g(-1) =$ _____

b) $g(-2) =$ _____

c) $g(0) =$ _____

d) $g(5) =$ _____

2) Let $f(x) = 2x + 2$. Evaluate each of the following:

a) $f(-3) =$ _____

b) $f(6) =$ _____

c) $f(-1) =$ _____

d) $f(4) =$ _____

3) Let $g(x) = x^2 + 4x - 1$. Evaluate each of the following:

a) $g(-4) =$ _____

b) $g(8) =$ _____

c) $g(-1) =$ _____

d) $g(1) =$ _____

4) Let $f(x) = 3x^2 - 5x$. Evaluate each of the following:

a) $f(2) =$ _____

b) $f(-8) =$ _____

c) $f(7) =$ _____

d) $f(-1) =$ _____

5) Suppose $f(x) = 4x - 2$. Determine $x$ such that:

a) $f(x) = 18$ _____

b) $f(x) = 0$ _____

c) $f(x) = -2$ _____

d) $f(x) = 12$ _____

6) Suppose $n(x) = 7x + 4$. Determine $x$ such that:

a) $n(x) = 39$ _____

b) $n(x) = 0$ _____

c) $n(x) = 4$ _____

d) $n(x) = 13$ _____

7) Suppose $g(x) = -5x + 6$. Determine $x$ such that:

a) $g(x) = 21$ _____

b) $g(x) = 0$ _____

c) $g(x) = -6$ _____

d) $g(x) = 14$ _____

8) Suppose $g(x) = -3x + 8$. Determine $x$ such that:

a) $g(x) = 14$ _____

b) $g(x) = 0$ _____

c) $g(x) = -14$ _____

d) $g(x) = 15$ _____

Determining Solutions Name:_____

Hour:_____

1- Determine if (0,2) is a **solution** for $g(x)=-5x+2$

2- Determine if (-1,5) is a **solution** for $g(x)=-5x+2$

3- Determine if (1,7) is a **solution** for $g(x)=5x+2$

4- Determine if (0,2) is a **solution** for $g(x)=2x-2$

5- Determine if (-1,-4) is a **solution** for $g(x)=2x-2$

6- Determine if (2,6) is a **solution** for $g(x)=2x-2$

7- Determine if (0,2) is a **solution** for $g(x)=x+2$

8- Determine if (-1,1) is a **solution** for $g(x)= x +2$

9- Determine if (-2,0) is a **solution** for $g(x)= x +2$

10-Determine if (3,4) is a **solution** for $g(x)=-5x +2$