## 2.1 True/False Equations and Solution Sets

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

## Corrective Assignment

Directions: Determine when $(4)3 - (1)3 =$	nine whether the following number sente 2) 5(6) + 2(3) = 2(3) + 5(6)		nces are true or false. $3) \frac{14}{8} = 2.125$ $4) \frac{1}{3} + \frac{1}{4} = .5833$		
(4-1)3	, , , , , , , , , , , , , , , , , , , ,	3) 8 - 2.12	J	3 45055	
Directions: Determine what value(s) for the given variable will make the following equations true.					
$5) (x-3)^2 = 25$	$6)\frac{x+2}{x^2+1} = \frac{6}{17}$	$6)\frac{x+2}{x^2+1} = \frac{6}{17}$		7) $g^2 - 5 = -1$	
8) $-g^2 = -9$	9) $4x - 2 = 14$	9) $4x - 2 = 14$		$8)\frac{x}{5} + 2 = 5$	
Directions: Describe the solution set.					
9) $x = -7$ Verbally:		$10)f - 6 \neq -$ Verbally:	-2		
verbany.		verbany.			
Cranhinally		Continu			
Graphically:		Graphically:			
Set Notation:		Set Notation:			
11) $y^2 = 25$		$12) \ 2q \le -1$	<u> </u>		
Verbally:		Verbally:			
Graphically:		Graphically:			
. ,					
Set Notation:		Set Notation:			
13)3(x-2) = 3x - 6		14) $u + 4 = u + 10$			
Verbally:		Verbally:			
Graphically:		Graphically:			
Set Notation:		Set Notation:			

Directions: Determine whether the following number sentences are true or false.

$$\begin{array}{c} 1) (4)3 - (1)3 = \\ (4-1)3 \end{array}$$

$$n - 3 = (3)3$$

$$2) 5(6) + 2(3) = 2(3) + 5(6)$$

$$30 + 6 = 6 + 30$$

$$36 + 36 + 36$$

3) 
$$\frac{1}{8} = 2.125$$
 $(13 < -2.125)$ 
 $(-ALSE)$ 

4) 
$$\frac{1}{3} + \frac{1}{4} = .5833$$
 Repeats  
, 5833 = .5837

Directions: Determine what value(s) for the given variable will make the following equations true.

5) 
$$(x-3)^2 = 25$$



wing equations true.

$$7) g^2 - 5 = -1$$

$$5^2 = 4$$

$$(2)^2 - 4$$

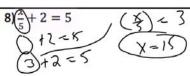
$$(-2)^2 - 4$$

$$8) - g^{2} = -9 \qquad x = -3$$

$$5^{2} - 5$$

$$305^{2}$$

9) 
$$4x - 2 = 14$$
  
 $4(i) - 1 = 14$ 



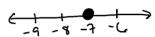
Directions: Describe the solution set.

9) 
$$x = -7$$

Verbally:

The solution set is -7.

Graphically:



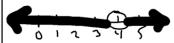
Set Notation:

$$10)f - 6 \neq -2$$

Verbally:

The solution set is all real numbers that don't equal 4.

Graphically:



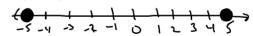
Set Notation:

11)  $v^2 = 25$ 

Verbally:

The solution set is -5 or 5.

Graphically:



Set Notation:  $\{-5,5\}$ 

12)  $2q \leq -10$ 

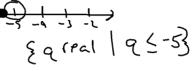
Verbally:

The solution set is all real numbers such that q is less than -5.

Graphically:



Set Notation:



4 ~10

13)3(x-2) = 3x-6  $3 \times -6$   $-3 \times -6$ 

Verbally:

The solution set is all real numbers.

Graphically:



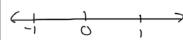
Set Notation:

14) u + 4 = u + 10

The solution set is the null set.

Graphically:

Verbally:



Set Notation: