

NAME \_\_\_\_\_

Date \_\_\_\_\_ Period \_\_\_\_\_

# Section 3.3

## ALGEBRA

### Substitution ("Plugging In"): Practice A

1. Plug in a number for a variable...

a)  $2x + 4$  when  $x = 3$

b)  $8x - 6$  when  $x = 5$

c)  $6x - 1$  when  $x = 9$

2. Now try all possible answers...

a)  $3x + 3$  when  $x = \{2, -3, 6\}$

b)  $5x - 11$  when  $x = \{4, -3, 2, -1\}$

3. Determine if the following points are solutions to the equation (Hint: plug them in and determine true or false)

Equation:  $y = 4x - 2$

Points:  $(3, 10)$ ,  $(-1, 6)$ ,  $(2, 6)$ ,  $(5, 4)$

4. Given a domain (all the x-values), find out the range (all of the y-values)

$Y = 5x + 1$  when  $x = \{-3, 2, 5, -1, 7, 3\}$

