

Name: _____ Period: _____ Score : _____

7-2 HW – Solving Systems of Equations by Substitution

Solve the system of equations using substitution.

$$\begin{array}{l} 1. \quad x + y = 7 \\ \quad y = 6x \end{array}$$

$$\begin{array}{l} 6. \quad x = 4y + 17 \\ \quad 3x - 4y = 11 \end{array}$$

$$\begin{array}{l} 2. \quad 3x + 2y = 14 \\ \quad y = x + 2 \end{array}$$

$$\begin{array}{l} 7. \quad -8x + 5y = 11 \\ \quad x = y - 1 \end{array}$$

$$\begin{array}{l} 3. \quad x + 3y = 1 \\ \quad x = -5 - 6y \end{array}$$

$$\begin{array}{l} 8. \quad 3x - 21 = y \\ \quad y + 2x = 1 \end{array}$$

$$\begin{array}{l} 4. \quad y + 4x = -1 \\ \quad x = -14 - 3y \end{array}$$

$$\begin{array}{l} 9. \quad 5x + 3y = 11 \\ \quad y = -x + 3 \end{array}$$

$$\begin{array}{l} 5. \quad x = -y + 9 \\ \quad 5x - 2y = -4 \end{array}$$

$$\begin{array}{l} 10. \quad 3x - 2y = 6 \\ \quad x = 5y - 11 \end{array}$$

Review:

For the following **Exponential Functions**:

- a) Write the recursive equation
- b) Write the explicit
- c) Answer the question provided

11.

x	$f(x)$
5	12
6	24
7	48

a)

b)

c) Find $f(12)$

12.

x	$f(x)$
-5	7
-4	$7/3$
-3	$7/9$

a)

b)

c) Find $f(-7)$

13. When it passes through the points $(3, 5)$ and $(4, 35)$

a)

b)

c) Find $f(12)$

14.

a)

b)

c) Find $f(12)$

