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Name _____ Period: _____
Date _____ Algebra 1

Function Notation WS.2

1. Evaluate the following expressions given the functions below:

$g(x) = -3x + 1$ $f(x) = x^2 + 7$ $h(x) = \frac{12}{x}$ $j(x) = 2x + 9$

- a. $g(10) =$
- b. $f(-3) =$
- c. $h(2) =$
- d. $j(7) =$
- e. $j(3) =$
- f. $h(-2) =$
- g. $h(3) =$
- h. $g(10) + h(3) =$
- i. $g(f(x)) =$
- j. $f(g(x)) =$

Solving Simple Equations (A)

Name: _____

Date: _____

Determine the value of each unknown.

1. $0 = x + 10$

2. $x + 10 = -11$

3. $-7 = 0 - 10$

4. $-7 = 0 - 10$

5. $-4 + 9 = -12$

6. $-4 + 9 = -10$

7. $-9 = x + -7$

8. $-3 = x + 1$

9. $x + -8 = -15$

10. $1 = -6 + 0$

11. $-6 = 2 - 7$

12. $3 = -1 - 2$

13. $-3 = 6 + 0$

14. $7 = -4 + 9$

15. $0 = x + 3$

16. $x + 9 = 15$

17. $4 + 5 = 7$

18. $-5 = 1 + 4$

19. $-1 = 0 + 0$

20. $0 = -1 + -1$

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Review of Sections: Relations and Functions, Linear Equations

1) $x = y^2 - 2$

x	y
2	-2
-1	-1
-2	0
-1	1
2	2

Not a function
 $D = \{x \mid x \geq -2\}$
 $R = \{\text{all real numbers}\}$

2) $2x + 3y = 12$

$-2x$

$\frac{3y}{3} = \frac{-2x + 12}{3}$

$y = -\frac{2}{3}x + 4$

$D = \{\text{all real numbers}\}$
 $R = \{\text{all real numbers}\}$
Continuous function

3) Discrete function

$D = \{2, 5, 8\}$
 $R = \{-3, 1, 3\}$

4) $y = x^2 + 3$

x	y
-2	7
-1	4
0	3
1	4
2	7

$D = \{\text{all real numbers}\}$
 $R = \{y \mid y \geq 3\}$
Continuous function

4) Function - no ranges share domains

5) Function - no ranges share domains

6) Not a function - two ranges have the same domain

7) $f(a+2) = \frac{(a+2)^2 + 2(a+2) - 9}{2(a+2) + 3}$

$= \frac{(a+2)(a+2) + 2a + 4 - 9}{2a + 4 + 3}$

$= \frac{a^2 + 4a + 4 + 2a + 4 - 9}{2a + 7} = \frac{a^2 - 6a - 1}{2a + 7}$

8) a) Not a function. Cannot be put into standard form or slope-intercept form because of the oval.

b) $(\frac{x}{3} + 5y = 12) \cdot 3$
 $x + 15y = 36$
Function - can be put into standard form

9) a) $-4[-\frac{1}{4}x + \frac{3}{4}y = 5]$
 $x - 3y = -20$
 $A = 1$ $B = -3$ $C = -20$

b) $.30x - .60y = .90$
 $10(\frac{3}{10}x - \frac{6}{10}y = \frac{9}{10})$
 $3x - 6y = 9$
 $x - 2y = 3$
 $A = 1$ $B = -2$ $C = 3$

11) a) $0 = 2a - 3$ $h(0) = 2(0) - 3$
 $3 = 2a$ $h(0) = -3$ y-intercept
 $\frac{3}{2} = a$ x-intercept

b) $6x + 7y = -42$ $6x + 7(10) = -42$
 $6x + 70 = -42$ $6x = -112$
 $7y = -42$ $x = -7$
 $y = -6$ x-intercept
y-intercept

12) $20(\frac{2}{5}x + \frac{1}{4}y = 1)$

a) $8x + 5y = 20$
 $\frac{5y}{5} = \frac{-8x + 20}{5}$
 $y = -\frac{8}{5}x + 4$

b) $2x + 7y = 14$
 $7y = -2x + 14$
 $y = -\frac{2}{7}x + 2$

Algebra 2 Worksheet

Matrix Operations

NAME _____

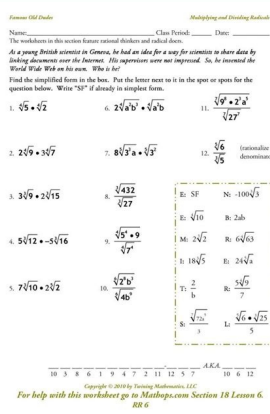
Simplify the equations below.

$$1. \begin{bmatrix} 3 & 4 \\ 2 & -1 \\ 1 & 0 \end{bmatrix} + \begin{bmatrix} 9 & 0 \\ 1 & -2 \\ 5 & 8 \end{bmatrix}$$

$$2. \begin{bmatrix} 5 & 2 \\ -3 & 6 \\ 0 & 5 \end{bmatrix} + \begin{bmatrix} 2 & 4 \\ -2 & -6 \\ -1 & 9 \end{bmatrix}$$

$$3. \begin{bmatrix} 2 & 1 \\ -7 & 3 \\ 9 & 1 \end{bmatrix} + \begin{bmatrix} 0 & 3 \\ 5 & -3 \\ 6 & 8 \end{bmatrix}$$

4. $\begin{bmatrix} 4 & -2 \\ -6 & -2 \\ 6 & -7 \end{bmatrix} + \begin{bmatrix} 6 & -2 \\ -9 & 3 \\ 7 & -1 \end{bmatrix}$



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