Name : _____ Score : _____

Teacher : _____ Date : _____

In and Out Boxes

Fill in the Empty Boxes.

1)

In	Out
6	
8	
16	
18	

Rule: Subtract 3

2)

In	Out
5	
11	
14	
16	

Rule: Subtract 1

3)

In	Out
5	
6	
9	
11	

Rule: Add 1

4)

In	Out
0	
8	
13	
14	

Rule: Add 2

5)

In	0	1	7	14
Out				

Rule: Add 4

6)

In	4	11	14	19
Out				

Rule: Subtract 4

7)

In	5	12	15	18
Out				

Rule: Subtract 3

8)

In	6	13	15	18
Out				

Rule: Subtract 4

Write the rule and fill in the empty boxes.

9)

In	Out
1	0
6	
13	12
14	13

Rule:

10)

In	Out
0	5
1	6
12	17
13	

Rule:

11)

In	Out
6	11
10	15
11	16
13	

Rule:

12)

In	Out
3	6
4	
8	11
15	18

Rule:

13)

In	3	6	10	11
Out	5	8	12	

Rule:

14)

In	10	12	13	17
Out	5	7		12

Rule:

Name : _____ Score : _____

Teacher : _____ Date : _____

In and Out Boxes

Fill in the Empty Boxes.

1)

In	Out
104	
184	
200	
328	

Rule: Divide 8

2)

In	Out
15	
16	
28	
31	

Rule: Multiply 4

3)

In	Out
29	
30	
33	
42	

Rule: Multiply 10

4)

In	Out
63	
96	
111	
126	

Rule: Divide 3

5)

In	72	144	150	168
Out				

Rule: Divide 6

6)

In	270	297	351	378
Out				

Rule: Divide 9

7)

In	18	23	25	31
Out				

Rule: Multiply 7

8)

In	12	19	24	26
Out				

Rule: Multiply 2

Write the rule and fill in the empty boxes.

9)

In	Out
162	
216	36
246	41
270	45

Rule:

10)

In	Out
15	60
29	116
35	140
45	

Rule:

11)

In	Out
19	57
31	
32	96
40	120

Rule:

12)

In	Out
168	
228	19
312	26
408	34

Rule:

13)

In	207	360	369	396
Out		40	41	44

Rule:

14)

In	12	32	36	39
Out	96	256		312

Rule:

Name : _____ Score : _____

Teacher : _____ Date : _____

Complete the function table for each equation.

1) $f(x) = 7x + 7$

x	y
0	7
-2	-7
-7	-42
4	35
1	14

2) $f(x) = -\frac{1}{6}x - 2$

x	y
6	
-9	
9	
2	
1	

3) $f(x) = 2x$

x	y
4	
-8	
-3	
-7	
-5	

4) $f(x) = x + 3$

x	y
-8	
1	
9	
-7	
2	

5) $f(x) = 9x - 6$

x	y
-1	
-7	
6	
1	
2	

6) $f(x) = 8x$

x	y
-1	
-3	
0	
2	
-7	

7) $f(x) = -\frac{1}{9}x + 4$

x	y
-4	
3	
-3	
8	
-1	

8) $f(x) = \frac{1}{6}x + 2$

x	y
3	
4	
2	
-8	
-3	

9) $f(x) = x - 9$

x	y
8	
4	
2	
6	
3	

10) $f(x) = 3x + 5$

x	y
5	
-6	
0	
-8	
1	

11) $f(x) = -2x$

x	y
6	
-8	
3	
4	
-4	

12) $f(x) = x - 7$

x	y
5	
9	
-9	
-5	
-4	

Math-Aids.Com

Algebra I
Function Notation Worksheet

Name: _____
Hour: _____ Date: _____

1. Evaluate the following expressions given the functions below:

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

a. $g(10) =$

b. $f(3) =$

c. $h(-2) =$

d. $j(7) =$

e. $h(a)$

f. Find x if $g(x) = 16$

g. Find x if $h(x) = -2$

h. Find x if $f(x) = 23$

i. CHALLENGE! (in other words, optional) $\quad g(b+c)$

j. CHALLENGE! (also optional) $\quad f(h(x))$

2. Translate the following statements into coordinate points:

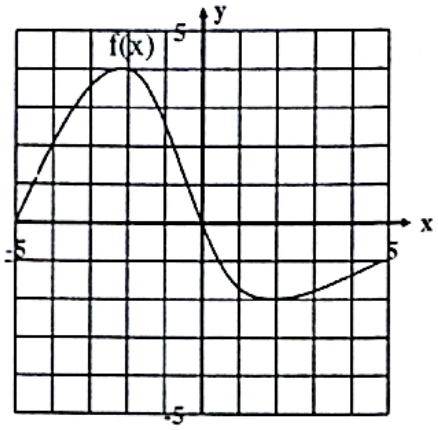
a. $f(-1) = 1$

b. $h(2) = 7$

c. $g(1) = -1$

d. $k(3) = 9$

3. Given this graph of the function f(x):



Find:

a. $f(-4) =$ **b.** $f(0) =$ **c.** $f(3)$ **d.** $f(-5)$

e. x when $f(x) = 2$ **f.** x when $f(x) = 0$

Kuta Software - Infinite Algebra 2

Example on back

Name_____

Evaluating Functions

Date_____ Period____

Evaluate each function.

1) $h(t) = |t + 2| + 3$; Find $h(6)$

2) $g(a) = 3^{3a-2}$; Find $g(1)$

3) $w(t) = -2t + 1$; Find $w(-7)$

4) $g(x) = 3x - 3$; Find $g(-6)$

5) $h(n) = -2n^2 + 4$; Find $h(4)$

6) $h(t) = -2 \cdot 5^{-t-1}$; Find $h(-2)$

7) $f(x) = x^2 - 3x$; Find $f(-8)$

8) $p(a) = -4^{3a}$; Find $p(-1)$

9) $p(t) = 4t - 5$; Find $p(t - 2)$

10) $g(a) = 4a$; Find $g(2a)$

11) $w(n) = 4n + 2$; Find $w(3n)$

12) $w(a) = a + 3$; Find $w(a + 4)$

13) $h(x) = 4x - 2$; Find $h(x + 2)$

14) $k(a) = -4^{3a+2}$; Find $k(a - 2)$

15) $g(n) = n^3 - 5n^2$; Find $g(-4n)$

16) $f(n) = n^2 - 2n$; Find $f(n^2)$

17) $p(a) = a^3 - 5$; Find $p(x - 4)$

18) $h(t) = 2 \cdot 3^{t+3}$; Find $h(4 + t)$