

Evaluating Equations Worksheet

Name:

Key

Period:

Evaluate the equation for *y* for *each* of given value of *x*. Show all of your work for full credit!!!

1. $2x + 7 = y$

$x = -1$ $2(-1) + 7 =$ $x = 1$ $2(1) + 7 =$

$x = -2$ $2(-2) + 7 =$

$-4 + 7 =$

$3 = y$

$x = 0$

$2(0) + 7 =$

$0 + 7 =$

$7 = y$

$x = 2$ $2(2) + 7 =$

$4 + 7 =$

$11 = y$

1)

x	y
-2	3
-1	5
0	7
1	9
2	11

2. $-5x + 4 = y$

3. $6x - 12 = y$

4. $y = -4x - 8$

5. $\frac{1}{3}x - 6 = y$

6. $-x + 7 = y$

2)

x	y
-1	9
0	4
1	-1
2	-6

3)

x	y
-1	-18
0	-12
1	-6
2	0

4)

x	y
-1	-4
0	-8
1	-12
2	-16

5)

x	y
-3	-7
0	0
3	-5

6)

x	y
-2	9
0	7
1	6

7. $\frac{2}{3}x + 6 = y$ $x = -6$

$$\frac{2}{3} \left(-\frac{6}{1} \right) + 6 = y$$

$$-4 + 6 = y$$

$$2 = y$$

7)

x	y
-6	2
0	6
9	12

8. $-\frac{1}{2}x = y$ $x = -4$

$$-\frac{1}{2} \left(-\frac{4}{1} \right) = y$$

$$2 = y$$

8)

x	y
-4	2
0	0
6	-3

9. $2x^2 = y$ $x = -2$

$$2(-2)^2 = y$$

$$2 \cdot 4 = y$$

$$8 = y$$

9)

x	y
-2	8
0	0
2	8

10. $-x^2 + 4 = y$ $x = -1$

$$-(-1)^2 + 4 = y$$

$$-(1) + 4 = y$$

$$-1 + 4 = y$$

$$3 = y$$

10)

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

11. $4^x = y$

$$4^{(0)} = 1$$

$$4^{(1)} = 4$$

$$4^{(2)} = 16$$

$$4^{(3)} = 64$$

$$4^7 = 256$$

11)

x	y
0	1
1	4
2	16
3	64
4	256