

Topic: Evaluating Equations

Objective: use given values of x to find y

Evaluate the given equations for y

ex

$$-x + 6 = y$$

* plug in our x s to find y

$$x=0 \quad - (0) + 6 = y$$
$$6 = y$$

$$x=2 \quad - (2) + 6 = y$$
$$-2 + 6 = 4 = y$$

$$x=-4 \quad - (-4) + 6 = y$$
$$4 + 6 = 10 = y$$

x	y
0	6
2	4
-4	10

ex

$$\frac{1}{3}x - 2 = y$$

$$x=-3 \quad \frac{1}{3}(-3) - 2 = y$$
$$-1 - 2 = -3 = y$$

$$x=0 \quad \frac{1}{3}(0) - 2 = y$$
$$0 - 2 = -2 = y$$

$$x=6 \quad \frac{1}{3}(6) - 2 = y$$
$$2 - 2 = 0 = y$$

$$x=12 \quad \frac{1}{3}(12) - 2 = y$$
$$4 - 2 = 2 = y$$

x	y
-3	-3
0	-2
6	0
12	2

(ex)

$$-x^2 + 5 = y$$

$$x=0 \quad - (0)^2 + 5 = y$$

$$0 + 5 = 5 = y$$

$$x=-2 \quad - (-2)^2 + 5 = y$$

$$-4 + 5 = 1 = y$$

$$x=2 \quad - (2)^2 + 5 = y$$

$$-4 + 5 = 1 = y$$

x	y
0	5
-2	1
2	1