

Key

Extra Following the Rules

Evaluate the output values by using the input values given from each table below. Be sure to show all of your work.

1. $y = x^2 + 3$

Follow these steps

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

$$y = (-2)^2 + 3$$

$$y = 4 + 3$$

$$y = 7$$

2. $y = |x - 3|$

x	-2	-1	0	1	2
y	5	4	3	2	1

$$y = |(-2) - 3|$$

$$y = |-5|$$

$$y = 5$$

3. $y = -x^2 + x$

x	-2	-1	0	1	2
y	-6	-2	0	0	-2

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

$$y = -4 + -2$$

$$y = -6$$

$$4. y = |3 - x|$$

x	-2	-1	0	1	2
y	5	4	3	2	1

Follow these steps

$$y = |3 - (-2)|$$

$$y = |5|$$

$$y = 5$$

$$5. y = x^3 + -x^2$$

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

$$y = (-2)^3 + -(-2)^2$$

$$y = -8 + -4$$

$$y = -12$$

$$6. y = -2|x - 1|$$

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

$$y = -2|(-2) - 1|$$

$$y = -2 \cdot |-3|$$

$$y = -2 \cdot 3$$

$$y = -6$$