

Name: _____

Key

Semester 1 Final Review
Day 5 : Unit 3 Pre Assessment

Objective: Can I evaluate a function?

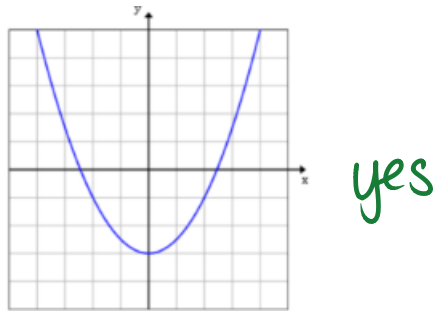
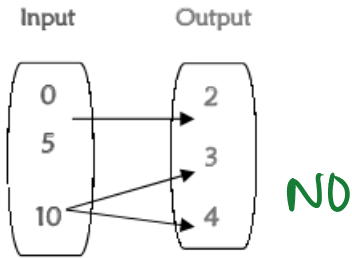
If $f(x) = x^2 - 5$, find $f(6)$

$$\begin{aligned} f(6) &= (6)^2 - 5 \\ &= 36 - 5 \\ &= \boxed{31} \end{aligned}$$

Self-Assess

1 I really need to review. 2 3 4 I remember this like it was yesterday. ☺ 5

Objective: Can I determine if something is a function?



Self-Assess

1 I really need to review. 2 3 4 I remember this like it was yesterday. ☺ 5

Objective: Can I evaluate a function using a table?

Use the table below to evaluate the following.

x	$f(x)$	$g(x)$	$h(x)$
0	2	-2	0
1	6	3	3
3	4	-4	1
6	-1	-2	0

$f(6) = \underline{-1}$

Find x when $g(x) = -2$ $x = 0$ and $x = 6$

Self-Assess

1 I really need to review. 2 3 4 I remember this like it was yesterday. ☺ 5

Objective: Can I make a table of a function and graph?

Given the verbal rule $f(x)$: *The output is triple the input then subtract one*

a. Write an equation that represents the rule:

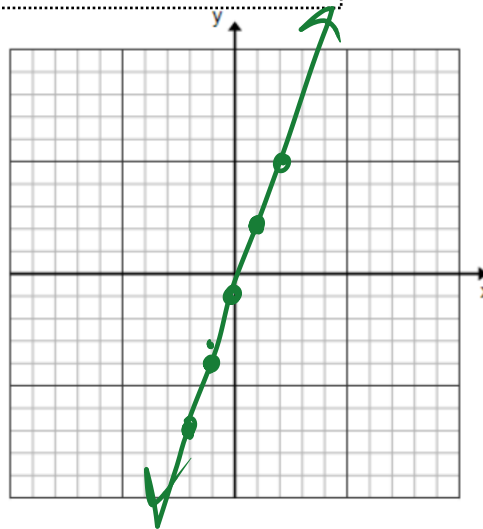
$$f(x) = 3x - 1$$

b. Make a Table

x	y
-2	-7
-1	-4
0	-1
1	2
2	5

$$f(-2) = 3(-2) - 1$$
$$f(-1) = 3(-1) - 1$$

Graph:



Self-Assess

1 I really need to review.

3

4 I remember this like it was yesterday.

Objective: Can I calculate slope using the slope formula?

Find the slope between the points $(-4, 6)$ and $(-6, -8)$

$$\text{Slope: } m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$\frac{-8 - 6}{-6 - (-4)} = \frac{-14}{-2} = 7$$

Self-Assess

1 I really need to review.

3

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Objective: Can I determine if a point is a solution to an equation?

Is the point $(-4, 2)$ a solution to the equation $-3x + 4y = 18$?

$$-3(-4) + 4(2) = 18$$

$$12 + 8 = 18$$

$$20 = 18 \quad \text{Nope}$$

Self-Assess

1 I really need to review.

3

4 I remember this like it was yesterday. ☺