Starter

9 OCT 2018

Find the value of y if x = -2.

y = 2x - 3

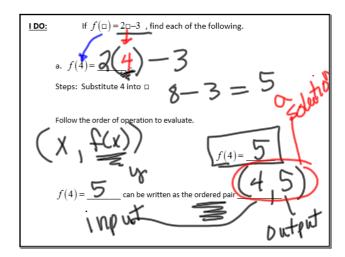
Functions can be written in two formats.	on Notation Day 1 U f of X
Y= format	F(x) format
$y = 2x$ $y = 3x^{2} + 4x$ $y = \sqrt{x+4}$ $y = \frac{x}{3}$	$f(x) = 2x$ $g(x) = 3x^{2} + 4x$ $k(x) = \sqrt{x+4}$ $j(x) = \frac{x}{3}$

The f(x) format is called function notation.

Function notation has two benefits over y = format.

- ullet Gives different functions their specific "name". In other words, f(x) denotes a specific rule, and g(x) denotes a different rule.
- It can be used to designate what value to evaluate. If it is written as f(2), it means to find rule "f" and substitute in a 2.

f(2)



IDO: b.
$$f(-6) =$$
 $f(1) = \lambda 1 - 3$

Steps: Substitute -6 into \Box

Follow the order of operation to evaluate.

$$f(-6) = 2(-6) - 3$$

$$-1\lambda - 3 = -15$$

$$f(6) = 15$$
can be written as the ordered pair $(-6, 15)$

Given
$$g(x) = x^2 + 5$$

Find $g(3) = 3$

Steps: Substitute 3 into x **in ()

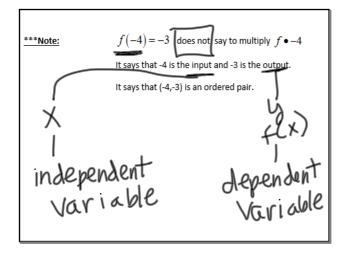
Follow the order of operation to evaluate.

$$g(3) = 4$$

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can be written as the ordered pair $(3, 14)$



$$f(x) = -2x + 3$$

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

$$-4 + 3 = -1$$

$$f(3) = -1$$

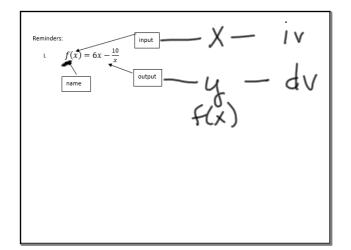
$$(3, -1)$$

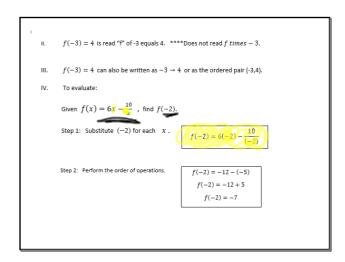
$$f(-1) = -2(-1) + 3$$

$$f(-1) = 5$$

$$2 + 3 = 5$$

$$(-1, 5)$$





***Recall *** f(-2) = -7 can be written as a mapping $-2 \to -7$ or as an ordered pair (-2, -7)PRACTICE WORK ON BACK

