

Today's Learning Goal(s):

Date: _____
(Every lesson)

By the end of the class, I will be able to:

- a) use function notation to represent linear and quadratic functions.

1.2 Function Notation

Function notation, such as $f(x)$, is used to represent the value of the dependent variable for a given value of the independent variable.

x is often called the input and $f(x)$ is called the output.

$f(x)$ is read "f of x" or "f at x"

Compared to the notation you have been used to y and $f(x)$ are interchangeable.

Therefore $y = -3x + 4$ can be written as $f(x) = -3x + 4$

or $y = 2(x - 3)^2 + 4$ can be written as $f(x) = 2(x - 3)^2 + 4$

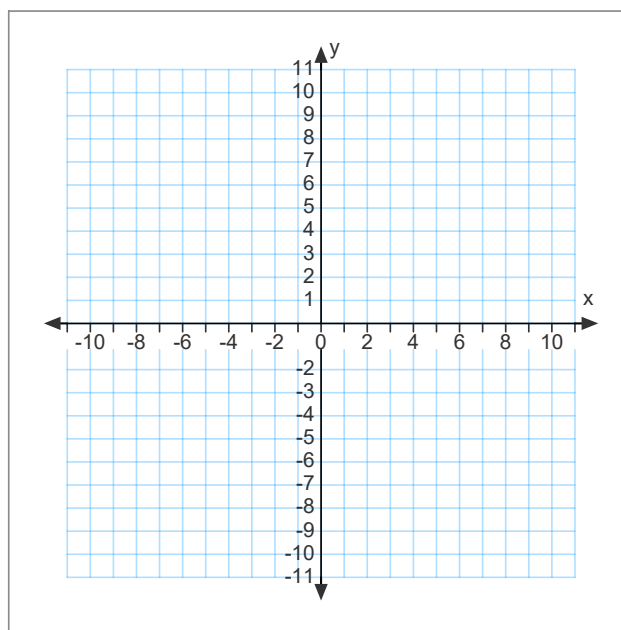
Ex. 1 If $f(x) = -x(x - 6)$ then find:

a) $f(2)$

b) $f(a)$

c) Find x if $f(x) = -16$

Ex. 2 Graph $f(x) = -x(x - 6)$ is the same as...



$f(2) = 8$ represents

Ex. 3 If $f(x) = x^2$ then find $f(x+4)$.

Today's Homework Practice includes: pp. 22-23 #1, 2, 4 – 7, 9, 10

Function Notation Worksheet #1 – 6 (answer keys on class website)