

Lesson 4-1 → Function Notation

There is another way to write functions

$$y = 3x + 5 \rightarrow f(x) = 3x + 5$$

$f(x)$ is pronounced "f of x"

given $f(x) = 3x + 5$, what is the value of $f(10)$

$$f(x) = 3x + 5$$

$$f(10) = 3(10) + 5$$

$$f(10) = 30 + 5$$

$$f(10) = 35$$

given $f(x) = 3x + 5$, what is
The value of x when $f(x) = 11$

DO NOT SUBSTITUTE x for 11
 x does not equal 11

$$f(x) = 3x + 5 \quad \text{and} \quad f(x) = 11$$

$$11 = 3x + 5$$

-5 -5

$$6 = 3x$$

$$2 = x$$

**** Don't Confuse ****

" $f(10)$ " with " $f(x) = 11$ "

They are **TOTALLY** different