

• To represent functions, we use symbols like f(x) and g(x). • The symbol f(x) is read "f of x" and simply means that the

expression that follows involves x.

Evaluating Functions

If
$$f(x) = 3x^2 - x - 6$$
, find...
a) $f(5) = 3(5)^2 - 5 - 6$
 $= 3(25) - 5 - 6$
 $= 5(5)^2 - 5 - 6$
 $= 66$

Try These!!!

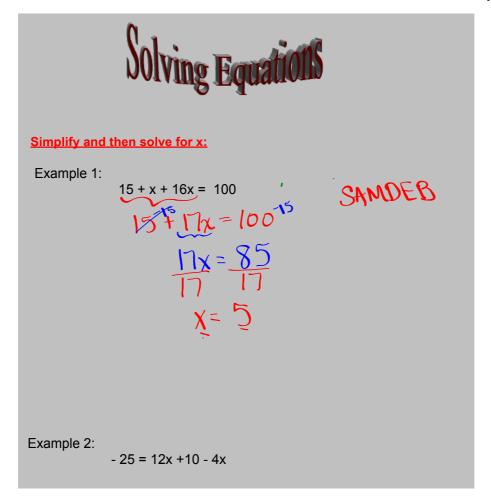
#1. If
$$f(x) = 3x^2 - x - 6$$
, find...

a) $f(5)$
b) $f(-4) = 3(-4)^2 - (-4)^2 - 6$
c) $f(\frac{2}{3}) = 48x^2 - x - 6$, find...

c) $f(\frac{2}{3}) = 48x^2 - 6$

$$= 46x^2 - 6$$

$$=$$



Hours Worked, h	Gross Pay, P (\$)
1	12
2	24
3	36
4	48
5	60

Let's write the function notation

$$P(h) = 12h$$

What is the person's pay after 20 hours?

$$P(20) = 12(20)$$

$$P(20) = $240$$

$$f(x) = 7x - 1$$
 $g(x) = 3(x - 1)$
 $h(x) = 2x^2 - 1$

a)
$$f(3)$$

 $f(3)=7(3)-1$
 $=21-1$

= 20