What you will learn about:
Functions

Function

$f(x)$

Read f of x

Given the functions: $f(x) = 2x - 5$, $g(x) = -3x + 9$, and $h(x) = x^2 - 3x + 6$

Evaluate the following:

$f(6)$

$f(6) = 2(6) - 5$
$= 12 - 5$
$= 7$
$(6, 7)$

$g(-3)$

$g(-3) = -3(-3) + 9$
$= 9 + 9$
$= 18$

$h(2)$

$h(2) = 2^2 - 3(2) + 6$
$= 4 - 6 + 6$
$= 4$

$f(-1)$

$f(-1) = 2(-1) - 5$
$= -2 - 5$
$= -7$

$g(7)$

$g(7) = -3(7) + 9$
$= -21 + 9$
$= -12$

$h(-4)$

$h(-4) = (-4)^2 - 3(-4) + 6$
$= 16 - (-12) + 6$
$= 28 + 6$
$= 34$

$f(4) + g(2)$

$g(2) = -3(2) + 9$
3

$f(4) = 2(4) - 5$
$= 3$

$3 + 3 = 6$

$h(1) - g(4)$

$h(1) = 1^2 - 3(1) + 6$
$1 - 3 + 6$
4

$g(4) = -3(4) + 9$
$= -3$

$4 - (-3) = 7$

$f(0) - h(3)$

$f(0) = 2(0) - 5$
$= -5$

$h(3)$
$3^2 - 3(3) + 6$
$9 - 9 + 6$
6

$-5 - 6 = -11$

$g(x) - f(x)$

$h(x) + f(x)$

$h(x) - g(x)$