

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:

$$\begin{aligned} f(6) \\ f(6) &= 2(6) - 5 \\ &= 12 - 5 \\ &= 7 \end{aligned}$$

$$\begin{aligned} g(-3) \\ g(-3) &= -3(-3) + 9 \\ &= 9 + 9 \\ &= 18 \end{aligned}$$

$$\begin{aligned} h(2) \\ h(2) &= 2^2 - 3(2) + 6 \\ &= 4 - 6 + 6 \\ &= 4 \end{aligned}$$

$$\begin{aligned} f(-1) \\ f(-1) &= 2(-1) - 5 \\ &= -2 - 5 \\ &= -7 \end{aligned}$$

$$\begin{aligned} g(7) \\ g(7) &= -3(7) + 9 \\ &= -21 + 9 \\ &= -12 \end{aligned}$$

$$\begin{aligned} h(-4) \\ h(-4) &= (-4)^2 - 3(-4) + 6 \\ &= 16 - (-12) + 6 \\ &= 28 + 6 \\ &= 34 \end{aligned}$$

$$\begin{aligned} g(2) &= \\ &= -3(2) + 9 \\ &= 3 \end{aligned}$$

$$\begin{aligned} f(4) &= 2(4) - 5 \\ &= 3 \\ 3 + 3 &= 6 \end{aligned}$$

$$\begin{aligned} h(1) - g(4) \\ h(1) &= 1^2 - 3(1) + 6 \\ &= 1 - 3 + 6 \\ &= 4 \end{aligned}$$

$$\begin{aligned} f(0) - h(3) \\ f(0) &= 2(0) - 5 \\ &= -5 \\ -5 - 6 &= -11 \end{aligned}$$

$$\begin{aligned} h(3) \\ h(3) &= 3^2 - 3(3) + 6 \\ &= 9 - 9 + 6 \\ &= 6 \end{aligned}$$

$$g(x) - f(x)$$

$$\begin{aligned} h(x) + f(x) \\ 4 - (-3) &= 7 \end{aligned}$$

$$h(x) - g(x)$$