



N5 - Relationships

Worksheet 3

Silver Level

**Outcome 1 - Evaluating Functions**

A function is given as $f(x) = 24x + 5$.

Find :

$f\left(\frac{1}{4}\right)$ $f\left(\frac{1}{6}\right)$ $f(-3)$

A function is given as $g(a) = 8a^2 - 9$.

Find :

$g\left(\frac{1}{2}\right)$ $g(-1)$ $g(-4)$

A function is defined as $h(t) = t^2 + 9t$.

Find :

$h\left(\frac{1}{3}\right)$ $h(-2)$ $h(-10)$

Outcome 2 - Functions - Working Backwards

A function is given as $f(x) = x^2 + 4x - 7$.

For what value of x is :

$f(x) = x^2 + 5$ $f(x) = x^2 - x + 13$

A function is given as $g(a) = a^2 + 3a + 8$.

For what value of a is :

$g(a) = a^2 + 14$ $g(a) = a^2 + 7a + 20$

A function is given as $h(t) = t^2 - 6t + 9$.

For what value of t is :

$h(t) = t^2 + 27$ $h(t) = t^2 - 11t + 11$