



N5 - Relationships

Worksheet 3

Gold Level

**Outcome 1 - Evaluating Functions**

A function is given as $f(x) = 5x + 3$.

Find :

1

$f(2p)$

2

$g(5d + 1)$

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

Find :

3

$g(7n)$

4

$f(m + 2)$

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

Find :

5

$h(8b)$

6

$h(2v - 5)$

Outcome 2 - Functions - Working Backwards

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

For what value(s) of x is :

1

$f(x) = 3x^2 + 9x - 17$

A function is given as $g(a) = 7a^2 + 2a - 3$.

For what value(s) of a is :

2

$g(a) = 6a^2 + 5a + 15$

A function is given as $h(t) = 6t^2 - t + 7$.

For what value(s) of t is :

3

$h(t) = 5t^2 - 9t - 8$