

## Substitution

1.  $e = 2f - 5g$ . Find the value of  $e$  when  $f = 12$  and  $g = 3$
2.  $e = 2f - 5g$ . Find the value of  $f$  when  $e = 8$  and  $g = -6$
3.  $f = 5p - 4v$ .  $p = -4$ ,  $v = 3$  Work out the value of  $f$
4.  $f = 5p - 4v$ .  $f = -22$ ,  $v = -5$  Work out the value of  $p$ .
5.  $T = 4a - 7b$ . Work out the value of  $T$  when  $a = 3$  and  $b = 2$
6.  $y = x^3 + kx + 5$ . Work out the value of  $y$  when  $k = 6$  and  $x = -2$
7.  $y = x^3 - kx + 5$ . Work out the value of  $k$  when  $y = 6$  and  $x = -2$
8.  $P = 5g + h^2$ . Find the value of  $P$  when  $g = 3$  and  $h = -4$
9.  $B = 6e - 3f$ . Work out the value of  $B$  when  $e = 3.2$  and  $f = -4$
10.  $a = 3c + f$ . Work out the value of  $c$  when  $a = 23$  and  $f = 5$
11.  $t = 4k + 9$   $k = 2$ . Work out the value of  $t$ .
12.  $p = 2n^2$   $n = 3$ . Work out the value of  $p$ .
13.  $a = -5$   $c = -2$ . Work out the value of  $2a^2 + 6c$ .
14.  $W = 4x + 5y$  Work out the value of  $W$  when  $x = -2$  and  $y = 3$ .
15.  $W = 4x + 5y$  Work out the value of  $x$  when  $W = -5$  and  $y = 3$ .