

WORKSHEET - Substitution

1 Given that $w = -5$ and $x = 9$, find the value of each of the following expressions.

(a) $x - w$

(b) $x^2 + w$

(c) $4(w + x)$

(d) xw

(e) $2w + x$

(f) $w^2 + 3$

(g) $x(3x + w)$

(h) $\frac{10x}{w}$

(i) $w(2x - w)$

2 If $n = -2$, which expression has the larger value?

$5n - n$

or

$2(4n + 3)$

3 Given that $m = -3$ and $n = -4$, find the value of each of the following expressions.

(a) $4m + n$

(b) $m^2 - n$

(c) $n(2m + 5)$

(d) $mn + m^2$

(e) $n^2 - m^2$

(f) $4m(5n + 3)$

(g) $n^3 + 4m$

(h) $(3m + 8)^2 - 2n$

(i) $m(n + 7) - n(m + 3)$