

Practice: Substitution | MFM1P

Simplify each of the following expressions, **then find the value** of the expression.

a) $2a + 3a - 4 + 5 + 2a$

when $a = 5$

b) $2x^2 - x + 3x^2 + 4x$

when $x = 5$

c) $2(3x + 4) + 5x$

when $x = -1$

d) $m^2 + 2(m + 3)$

when $m = 2$

$$e) 2(x + 3) - 4(x + 2)$$

when $x = -3$

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

when $m = 4$

$$g) 2w(3 + w) - 5w$$

when $w = -2$

$$h) k(5k - 7) + 3k(k - 4)$$

when $k = 2$

Answers:

- a) 36 b) 140 c) -3 d) 14 e) 4 f) 252 g) 6 h) -6