

Multiplying Polynomials

Distributive Property:

$$2(4x - 8)$$

$$3a^2(5 - 4a - a^2)$$

$$(5x - 2)(4x + 5)$$

Expand and simplify:

Example 1 $-2x(3x^2 - 4x + 6)$

Example 2 $2(3m - 5) - 4(2m - 1)$

Example 3 $7(x^2 - 3x - 4) - 3(4x^2 + 5x - 6) - 2$

Example 4 $4m(3m - (6m - 1)) + 2m(3m + 2)$

Example 5 $4(y - 2)(2y + 5)$

Example 6 $(4x - 2y)^2$

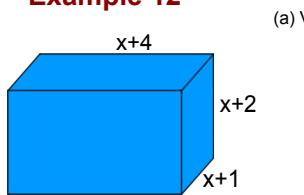
Example 7 $(a+2)(a-5) - 2(a-3)(a+4)$

Example 8 $-3(x^2 - y^2) - (2x + y)^2$

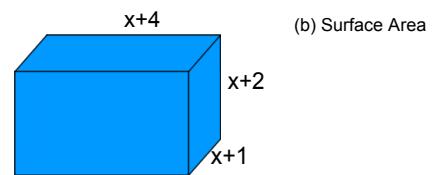
Example 9 $4 + 2(m-4k)(2m+k) - 3(5m-k)^2$

Example 10 $(y-3)(2y^2 - 4y + 8)$

Example 11 $(y-3)(2y-4)(y+1)$

Example 12

(a) Volume



(b) Surface Area