

☺ *Expand the following.*

(1) $2(a + b)$

(2) $-3(m - n)$

(3) $5(3x^2 + 2y^2)$

(4) $7(-2a + 3b)$

(5) $-4(x^3 - 2y^2 - 3z)$

☺ *Expand the following.*

(6) $a^2(a - b^2)$

(7) $3x(2x - 3y)$

(8) $-6h^2(g + h)$

(9) $-5m(-m^2 + 3n^3 - 2p)$

(10) $4a^5(-4a + 3b - 5c)$

☺ *Expand the following.*

(11) $3(x - y) + 4(2x + y)$

(12) $5(a + b) + 2(-3a - b)$

(13) $-7(2m - n) + 6(-3m + 2n)$

(14) $4(3x - 2y^3) - 3(4x + 3y^3)$

(15) $a(b^2 + c) + 2a(b^2 - 2c)$

☺ *Expand the following.*

(16) $x(-y - 2z) + 3x(y + z)$

(17) $-m^2(-m + 2n) + 2m^2(2m - 3n)$

(18) $-3h(2g - 2h) - 3h(g + 2h)$

(19) $-2(3x + 2y^2 - z) - 3(-2x - y^2 + 3z)$

(20) $x(2x^2 - y - z^3) + 3x(2x^2 + 5y - 2z^3)$

☺ *Expand the following.*

(21) $5(x - y) - 3(-x + 2y) + 2(3x - 2y)$

(22) $2(a - b^2) + 3(c - b^2) - 5(a - c)$

(23) $3(3m - 2n) - 4(4m + 3n) - 2(4m - 9n)$

(24) $-2(a + b^2) - 3(2a - 3b^2) + 7(a - b^2)$

(25) $2(2x - 3y + 5z) - 3(x + y - 3z) + 5(-x - 2y - 4z)$

☺ *Expand the following.*

$$(26) \ a(x - y) - 2a(-3x + 2y) + 3a(2x + 4y)$$

$$(27) \ x^2(y - z) + x^2(2y + 3z) - x^2(-4y + 2z)$$

$$(28) \ m(2x - y^2 + z) - 3m(-x + 2y^2 + 3z) + 2m(-4x + 3y^2 - 4z)$$

$$(29) \ a(b^2 + 2c - 3d^3) - 2a(-2b^2 + c + 2d^3) + 3a(-b^2 + 3c - d^3)$$

$$(30) \ 2k^3(2m - 3n^2 - 4p) - 3k^3(2m - 4n^2 + 2p) + k^3(-3m + 4n^2 - p)$$

☺ *Expand the following.*

(31) $(m + n)(m - n)$

(32) $(2a + b)(3a - b)$

(33) $(3x - 2y)(4x + 3y)$

(34) $(g - 2h)(3g - 4h)$

(35) $(2p - 3q)(5p + 2q)$

☺ *Expand the following.*

(36) $(a^2 + b)(a + b^2)$

(37) $(2m - n)(3m^2 + 4n^2)$

(38) $(2c^2 + d^2)(c - d)$

(39) $(2x^2 - 3y^2)(x^2 + 2y^2)$

(40) $(5a^2 - 3b^2)(4a^2 - b^2)$

☺ Expand the following.

(41) $(x - y)(2x + y) + (2x + 3y)(x - 2y)$

(42) $(2a + 3b)(2a - b) + (3a - 2b)(a - 4b)$

(43) $(m - 3n)(2m - 4n) - (m + 3n)(m - 2n)$

(44) $(4h - 3k)(2h + 3k) - (2h + 5k)(4h - k)$

(45) $(p + 3q)(2p - 5q) - (2p + 5q)(3p - 3q)$

☺ Expand the following.

(46) $(2x^2 - y)(x - y) + (2x - y)(3x^2 + y)$

(47) $(3a^2 + 2b)(a - b) - (a - 2b)(3a^2 + b)$

(48) $(m^2 + n)(3m - 4n^2) + (4m^2 - n)(3m + n^2)$

(49) $(5a^2 - 2b^2)(a^2 + 2b^2) - (a^2 + b^2)(5a^2 - 4b^2)$

(50) $(2x^2 - 3y^3)(3x^2 - 4y^2) - (6x^2 - 9y^3)(x^2 - 2y^2)$

☺ *Expand the following.*

$$(51) \quad (x + 2y)(2x - y) + (x - 3y)(3x + 2y) + (2x + 5y)(3x - 7y)$$

$$(52) \quad (2a - b)(2a + b) + (a + 2b)(3a - 2b) - (2a - 5b)(3a + b)$$

$$(53) \quad (3m - 2n)(4m - 3n) - (2m - 9n)(9m + n) + (2m + 3n)(3m - 2n)$$

$$(54) \quad (x - y)(3x + 2y) - (2x + y)(7x - y) - (2x - y)(7x + 3y)$$

$$(55) \quad (6p - 5q)(p + q) + (2p - 3q)(4p + q) + (p - 2q)(3p - 4q)$$

☺ *Expand the following.*

$$(56) \quad (3m - 2n)(4m - 3n) - (2m - 9n)(9m + n) + (2m + 3n)(3m - 2n)$$

$$(57) \quad (x^2 - 2y)(4x - y^2) + (x^2 - 2y)(x + 2y^2) + (x + 3y^2)(3x^2 + y)$$

$$(58) \quad (a^2 - 2b)(3a - 2b^2) - (2a^2 + b)(3a - 2b^2) + (a - 2b^2)(a^2 - b)$$

$$(59) \quad (3m^2 + 2n^2)(3m - 2n) - (5m + n)(4m^2 - n^2) - (m - 2n)(m^2 + 3n^2)$$

$$(60) \quad (2c^3 + 5d^2)(2c^2 - 5d^2) + (3c^2 - d^2)(3c^2 + d^2) - (4c^2 - d^2)(c^2 - d^2)$$