

What is the degree of the monomial?

1) $8xy^3$

2) $7b^2c^8$

Write the polynomial in standard form. Name the polynomial by degree and number of terms.

3) $3 + y^2 - 2 - 4y^2 + y$

4) $5x + 2 - (4x + 1 + x)$

5) $-3(7h^2 - 2)$

6) $5(n^3 + 2n^2) - (6n^2 - 3n)$

Use FOIL to multiply the binomials. Simplify the result.

7) $(3x - 1)(5x + 2)$

8) $(6x + 5)(4x - 1)$

Use any method to square the binomials. Simplify the result.

9) $(7x - 2)^2$

10) $(4x + 1)^2$

Use box method to multiply the polynomials. Simplify the result.

11) $(8y - 3)(2y + 7)$

12) $(5d + 3)(2d - 9)$

13) $(3x + 2)(5x^2 - 4x + 3)$

14) $(3x^2 + 7x - 1)(2x - 5)$

Add or subtract the polynomials. Simplify the result.

15) $(9x^2 - 4x + 2) + (5x^2 + 2x - 1)$

16) $(-2y + 3y^5 + 2) - (4y^2 - 3y + 7)$

Simplify the expression.

17) $8x(3x^2 - 4x + 2)$

18) $3h(4h^2 + h - 3)$

Write a word phrase for the algebraic expression.

19) $4(h - 2)$

20) $4h - 2$