

Introduction to Algebra

Match each of the following terms to part of the expression below:

$$4x^2 + 6x - 3$$

Expression: _____

Term: _____

Variable: _____

Coefficient: _____

Constant: _____

$$x^2 - 2x + 10$$
$$5x$$
$$3x + 5$$

Monomial: _____

Binomial: _____

Trinomial: _____

Polynomial: _____

Degree

The degree of an expression is the _____ exponent(s) in the expression.

a) $6x^2 + 2x + 4$

b) $3x^2y^3 + 9x^6y^2 - 2x^5y^4$

c) $3x - 10$

d) 7

Collecting Like Terms

Like terms have the same _____ and _____.

Ex. $3x$ and _____

$5x^3$ and _____

$8a^4b^3c^2$ and _____

Simplify by collecting like terms:

a) $6x + 2y + 3z + 5y - x + 2z$

b) $3a + 5b + 8b - 2a - 3b$

c) $3x + 4 + 2x + 7 - 8x - 2$

d) $2a + 5a^2 - 3a + 7a^2 - a^2 + 4a$