

Adding and Subtracting Polynomials

Monomial	Binomial	Trinomial
*numbers and variables combined through multiplication	*sum of 2 monomials (2 monomials combined by + or -)	*sum of 3 monomials (3 monomials combined by + or -)
Examples: $-3x^5y$ -9 $14m$	Examples: $4x - 7$ $2x + 9y$ $2 + 13x$	Examples: $a + 2b + 4c$ $x^2 + 8x + 9$ $2x^2 + 2xy + y^2$

A polynomial is a monomial or sum of monomials.

Find each sum or difference.

1. $(4x - 5) + (3x + 6)$
 $4x + 3x - 5 + 6$
 $7x + 1$

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

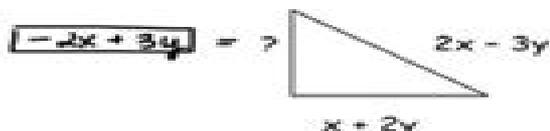
3. $(3x^2 - 5xy^2 + y^3) + (-3x^2 - 5xy^2 - y^3)$
 $3x^2 - 3x^2 - 5xy^2 - 5xy^2 + y^3 - y^3$
 $0x^2 - 10xy^2 + 0y^3$
 $-10xy^2$

4. $(6x^2 + 12xy + 4y^2) - (2x^2 - 8xy + 2y^2)$
 $6x^2 - 2x^2 + 12xy + 8xy + 4y^2 - 2y^2$
 $4x^2 + 20xy + 2y^2$

Some of the measures of polygons are given. Find the measure of the other side or sides.

P represents the measure of the perimeter.

5. $P = 5x + 2y$



$$5x + 2y = (x + 2y) + (2x - 3y) + ?$$

$$\begin{array}{r} 5x + 2y \\ -(x + 2y) \\ \hline 4x \\ -(2x - 3y) \\ \hline 2x + 3y \\ \hline -2x + 3y = ? \end{array}$$

6. $* P = 2L + 2W$
 $P = 14x^2 + 10x + 12$



$$2(3x^2 + 5) + 2(?) = 14x^2 + 10x + 12$$

$$\begin{array}{r} 6x^2 + 10 + 2(?) \\ -(6x^2 + 10) \\ \hline 2(?) \\ \hline 2(?) = 8x^2 + 10x + 2 \\ \hline ? = 4x^2 + 5x + 1 \end{array}$$

Polynomials Notes 1

Kathleen Armour



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