

Adding and Subtracting Polynomials

<u>Monomial</u>	<u>Binomial</u>	<u>Trinomial</u>
*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: $-3x^8y$ -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. $(4x - 5) + (3x + 6)$

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

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

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

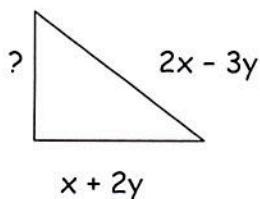
5. $7x^2y^2 - 8xy + 9$
 $(-) x^2y^2 - 9xy - 10$

6. $5x^2 + 3xy$
 $(-) 2x^2 - 8xy + 4$

7. $x^2 + 2xy + y^2$
 $(-) x^2 + 2xy - y^2$

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

8. $P = 5x + 2y$



9. $P = 14x^2 + 10x + 12$

