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Thursday, September 27, 2012
11:20 AM

Adding Polynomials

monomial - **one** algebraic term $2x^2, x, 5$

binomial - **two** algebraic terms $y+6, x^2+x$

trinomial - **three** algebraic terms x^2+2x+1

polynomial - **many** algebraic (more than 1)

Combine "Like" Terms (CLT)

* you can only $+/ -$ terms that have the **EXACT** same variable raised to the same power.

exs:

$$\textcircled{1} \begin{array}{r} \boxed{8x^2} - \boxed{4x} + \boxed{1} \\ + \quad \boxed{-3x^2} + \boxed{5x} - \boxed{8} \end{array}$$

$$5x^2 + \cancel{1}x - 7 \Rightarrow 5x^2 + x - 7$$

$$\textcircled{2} \begin{array}{r} \boxed{3y^2} - \cancel{5y} + \boxed{7} \\ + \quad \boxed{-5y^2} + \cancel{4y} - \boxed{9} \end{array}$$

$$-2y^2 - \cancel{1}y - 2 \Rightarrow -2y^2 - y - 2$$

add all sides
 $\textcircled{3}$ The perimeter of a \triangle has the sides, $5x+3y$, $6x+9y$, and $x-3y$.

Find the perimeter in terms of x and y .

$$\begin{array}{r}
 + \quad \boxed{5x+3y} \quad \boxed{6x+9y} \\
 \quad \quad \boxed{x-3y} \\
 \hline
 12x+9y
 \end{array}$$

✓