

Polynomials





Monomial

1 term



Binomial

2 terms



Trinomial

3 terms

How are terms separated?????



Terms are separated by “+” and “-“ signs.

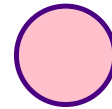




How many terms?

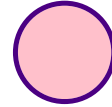
$$4x - 5y + q$$

3



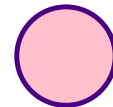
$$5(x - 3y)$$

2



$$\frac{3x - 4}{5}$$

2



Bonus:

How many terms?

$$\underline{3x} + \underline{4y} - \underline{5x} - \underline{2y} + \underline{x}$$

$$-1x + 2y$$

$$= 2$$



What do terms consist of?

$$4xy^2z$$

Numerical
Coefficient

Literal
Coefficient

Simplify:

$$2x + 7 + 5x - 2$$

$$7x + 5$$



Expand and collect like terms.

$$4(x - 2) - 2(x + 3)$$

$$\textcircled{4x} - \underline{\underline{8}} \quad \textcircled{-2x} - \underline{\underline{6}}$$

$$= 2x - 14$$

$$4(3xy + 7x - 5) - 3(2x + 5xy - 1)$$

$$12xy + \underline{\underline{28x}} - 20 - \underline{\underline{6x}} - 15xy + 3$$

$$-3xy + 22x - 17$$

What Do You Notice ????

#1 $1(2x - 4) + 1(3x - 5)$
 $\underline{2x}(-4) + \underline{3x}(-5)$
 $= 5x - 9$

#2 $1(4x - 3) - 1(8 - 2x)$
 $\underline{4x}(-3) - \underline{8} + \underline{2x}$
 $= 6x - 11$

$$2x'(x^3 - 5x^2 - x' - 5)$$
$$2x^4 - 10x^3 - 2x^2 - 10x'$$



$$(2m^4n)(3m^2n^3)(4mn)$$

$$= 24m^7n^5$$

$$(x' + 4)(x' - 3)$$

$$x^2 - \underline{3x} + \underline{4x} - 12$$

$$= x^2 + 1x - 12 \quad \begin{array}{l} \underline{4} \quad x - 3 = -12 \\ \underline{4} \quad + -3 = \quad 1 \end{array}$$

