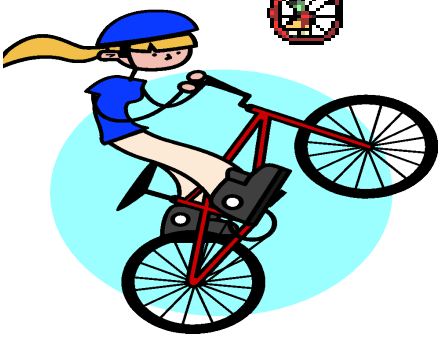
Polynomials

Monomial ONE term



Binomial TWO terms

Trinomial THREE 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

$5x-15y$

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

Bonus:

How many terms?

$3x+4y-5x-2y+x$

$-1x+2y$

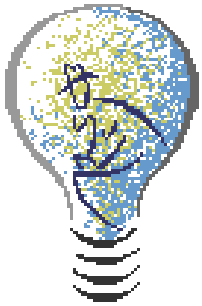
Two Terms!!

Simplify:

$$2x - 7 + 3x^2 - 5x - 2 - 2x^2$$

$= -3x - 9 + 1x^2$ ✓

$= x^2 - 3x - 9$ ✓



Simplify

$$4mn(2m - 2n - 1)$$

$$= 8m^2n - 8mn^2 - 4mn$$

Simplify:

$$5x^2y^3(2x^3y^2z + 3xy - 1)$$

$$= 10x^5y^5z + 15x^3y^4 - 5x^2y^3$$

Simplify:

$= x^2 + 2x - 4x - 8$

$= x^2 - 2x - 8$

$$(y - 3)(y + 6)$$

$$= y^2 + 6y - 3y - 18$$

$$= y^2 + 3y - 18$$

$(w - 5)(w + 7)$

$w^2 + 7w - 5w - 35$

$w^2 + 2w - 35$


Time for you
to try some
on your own.

$$3n^4(5m^3n^1 - 10m^2n^2)$$

$$= 15n^5m^3 - 30n^6m^2$$

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

$x^2 - 3x + 4x - 12$

$x^2 + 1x - 12$

$$4x(2x + 1) - 2x(3x - 3)$$

$$8x^2 + 4x - 6x^2 + 6x$$

$$= 2x^2 + 10x$$

Ultimate Question

$$(2x - 2)(3x^2 - 4x + 1)$$