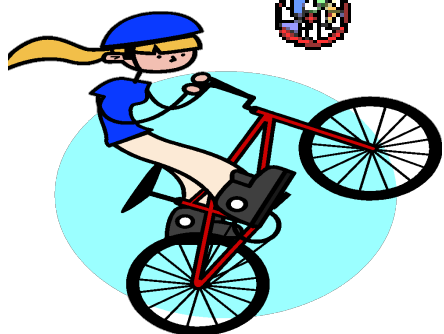






Monomial ONE term



Binomial TWO terms



Trinomial THREE terms

*How are terms separated?????*



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





How many terms?

$$4x - 5y + q$$

$$5(x - 3y)$$

$$5x - 15y$$

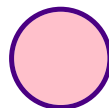
$$\frac{3x - 4}{5}$$

$$5$$

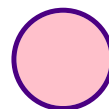
$$\frac{3x}{5} - \frac{4}{5}$$

3

2



2



Bonus:

How many terms?

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

$$-1x + 2y$$



Simplify:

$$\boxed{2x} - 7 + 3x^2 - \boxed{5x} - 2 - 2x^2$$

$$1x^2 - 3x - 9$$



**Simplify**

$$4mn(2m - 2n - 1)$$
$$= 8m^2n - 8m'n^2 - 4m'n$$



**Simplify:**

$$5x^2y^3(2x^3y^2z + 3xy - 1)$$
$$= 10x^5y^5z + 15x^3y^4 - 5x^2y^3$$

**Simplify:**

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

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

$$= x^2 - 2x - 8$$

$$(y' - 3)(y' + 6)$$
$$y^2 + 6y - 3y - 18$$
$$y^2 + 3y - 18$$

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

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

$$w^2 + 2w - 35$$



$$3n^4(5m^3n - 10m^2n^2)$$
$$15n^5m^3 - 30n^6m^2$$

1

$$\begin{aligned} & (x+4)(x-3) \\ & x^2 - 3x + 4x - 12 \\ & = x^2 + 1x - 12 \end{aligned}$$

The image shows a handwritten algebraic expansion of the product of two binomials,  $(x+4)(x-3)$ . The original expression is written in black ink. The first binomial,  $(x+4)$ , has its  $x$  circled in red and its  $4$  circled in blue. The second binomial,  $(x-3)$ , has its  $x$  circled in red and its  $-3$  circled in blue. Red arrows show the multiplication of  $x$  by  $x$  and  $x$  by  $-3$ . Blue arrows show the multiplication of  $4$  by  $x$  and  $4$  by  $-3$ . Below the original expression, the expanded form  $x^2 - 3x + 4x - 12$  is written in red and blue ink, with  $-3x$  circled in blue and  $4x$  circled in blue. Finally, the simplified expression  $= x^2 + 1x - 12$  is written in blue ink.

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

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

$$2x^2 + 10x$$



Ultimate Question

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

$$6x^3 - 8x^2 + 2x - 6x^2 + 8x - 2$$

$$= 6x^3 - 14x^2 + 10x - 2$$

