

Instrucciones: escribe el resultado sin espacios y usa "*" para los exponentes.

Ejemplo: si el resultado es $-x^3 + 3x^2y^4 + 4x$, escribe:

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

Polynomials

1) Indicate the degree, the leading term and the constant term in each polynomial:

Polynomial	Degree	Leading term	Constant term
$4x^5 + 2x$			
$-x^3 + 2x^2 - 5x + 3$			
$2x + 2$			
$-6x$			
$9x^2 + 4x^4 - 5 + 4x$			

Value of an algebraic expression

2) Work out the value of each algebraic expression using the given values:

Algebraic expression	Value	Result
$P = \sqrt{3x^3} + 2x^2 - 1$	$x = 3$	$P =$
$Q = 5x^4 + 10x^3 + 3x^2 - x + 6$	$x = -4$	$Q =$
$R = \frac{1}{x-2} + \sqrt[3]{x-2} - 2$	$x = 10$	$R =$

Addition and subtraction of polynomials

3) Given the polynomials P , Q and R , calculate the following expressions:

$$P = 4x^3 + x^2 + 5x - 2 \quad Q = 2x^3 - 3x + 1 \quad R = 6x^2 - 3$$

$P + Q + R =$	$Q - R =$
$P - Q - R =$	$Q - 2R =$