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:

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

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

LIVEWORKSHEETS