Ejercicios con monomios

1. Completa la siguiente tabla:

Monomio	Coeficiente	Parte literal	Grado
$8x^2$			
$5\,ab^4c^2$			
x^2y			
$\frac{3}{4}p^2\,q\,r$			
$\frac{5}{7}$			

2. Halla el resultado cuando sea posible:

$3x^2 + 2x^2 =$ $\qquad\qquad$ $6x - 9x =$

$9x + 12x =$ $\qquad\qquad$ $-5x^2 + 9x^2 =$

$-8x - 4x =$ $\qquad\qquad$ $5x + 2x^2 =$

$x - 8x =$ $\qquad\qquad$ $4x + x =$

$9x^3 - 5x^3 =$ $\qquad\qquad$ $8x^2 - 3x^3 =$

3. Reduce las expresiones:

$2x^2 - 3x + 4x - 9x^2 =$

$5x^3 - 7x + 2x - 9x^2 + 2x^3 - 5x^2 =$

$3x^2 - 1 - 2x^2 - x^2 =$

$5x^4 - 3x - 5x^4 + 3x =$

4. Calcula el resultado:

$3x \cdot 2x =$ $\qquad$ $2x^2 \cdot 3x =$ $\qquad$ $5x^4 \cdot 4x^2 =$

$2x^7 \cdot 4 =$ $\qquad$ $8x \cdot 3x^5 =$ $\qquad$ $x \cdot 6 =$

$\frac{3}{2}x^3 \cdot 5x^2 =$ $\qquad$ $\frac{4}{3}x \cdot \frac{2}{5}x^4 =$ $\qquad$ $5x \cdot \frac{2}{7} =$

5. Calcula el resultado:

$15x^5 : 3x^2 =$

$20x^6 : 4x^2 =$

$\dfrac{30x^8}{5x} =$

$10x : 2 =$

$\dfrac{12x^4}{3x} =$

$\dfrac{5x}{x^2} =$

$12x : 3x^2 =$

$\dfrac{60x^8}{6x^2} =$

6. Opera los monomios:

$3x + 2x =$	$4x + x =$	$5x + 6x =$
$8x + 9x =$	$3x^2 + 2x^2 =$	$5x^2 + 4x^2 =$
$6x + 2x + 5x =$	$3x + 2x + x =$	$4x + 8x + 2x =$
$6x - 3x =$	$8x - 5x =$	$11x - x =$
$5x - 8x =$	$9x - 6x =$	$3x - 5x =$
$4x^2 - 9x^2 =$	$7x^2 - 10x^2 =$	$x^2 - 5x^2 =$
$3x + 6x - 4x =$	$2x - 5x - 4x =$	$x - 3x - 4x =$
$2x^2 . 5x^3 =$	$3x . 4x^2 =$	$5x . 3x^4 =$
$4a^2 . 5a^3 =$	$3a^4 . 6a^2 =$	$2b^6 . 3b^4 =$
$12x^4 : 3x =$	$20x^8 : 2x^6 =$	$16x^7 : 8x^5 =$
$6a^6 : 2a^2 =$	$8b^5 : 4b =$	$10c^8 : 5c^5 =$
$4x + 7x =$	$9x + x =$	$2x + 7x =$
$4x + 10x =$	$12x^2 + 4x^2 =$	$4x^2 + 5x^2 =$
$9x + 3x + 6x =$	$x + 5x + 5x =$	$3x + 5x + 6x =$
$7x - 3x =$	$9x - 4x =$	$10x - x =$
$5x - 9x =$	$12x - 4x =$	$3x - 7x =$
$8x^2 - 12x^2 =$	$7x^2 - 14x^2 =$	$x^2 - 7x^2 =$
$4x + 5x - 6x =$	$2x - 7x - 9x =$	$x - 2x - 5x =$
$4x^2 . 5x^3 =$	$2x . 6x^2 =$	$3x . 3x^5 =$
$2a^2 . 6a^3 =$	$4a^3 . 2a^6 =$	$5b^6 . 5b^4 =$
$12x^6 : 3x^2 =$	$24x^8 : 2x^6 =$	$16x^7 : 4x^5 =$
$16a^6 : 2a =$	$8b^5 : 4b =$	$20c^8 : 5c^5 =$
$12x^3 : 3x^8 =$	$2X^5 : 2x^5 =$	$3x^3 : 3x^2 =$