

1. Determine the coefficient of each term, the degree of each term, the degree of the polynomial, the leading term, and the leading coefficient of the polynomial.

$$11x^3 - 6x^2 + x + 3$$

Term	Coefficient	Degree
$11x^3$	11	3
$-6x^2$	-6	2
$x$	1	1
3	3	0

Degree of the polynomial: 3

Leading term:  $11x^3$

Leading coefficient: 11

2. Determine the coefficient of each term, the degree of each term, the degree of the polynomial, the leading term, and the leading coefficient of the polynomial.

$$12x^4y - 5x^3y^7 - x^2 + 4$$

Term	Coefficient	Degree
$12x^4y$	12	5
$-5x^3y^7$	-5	10
$-x^2$	-1	2
4	4	0

Degree of the polynomial: 10

Leading term:  $-5x^3y^7$

Leading coefficient: -5

3. Subtract:  $(5x^4y^2 + 6x^3y - 7y) - (3x^4y^2 - 5x^3y - 6y + 8x)$

$$\begin{aligned}
 &= 5x^4y^2 + 6x^3y - 7y - 3x^4y^2 + 5x^3y + 6y - 8x \\
 &= \boxed{2x^4y^2 + 11x^3y - y - 8x}
 \end{aligned}$$

Q: What holds water yet is full of holes?