![Math Antics Exercises logo]

What Are Polynomials?

1 Fill in the blank.

The number part of a term is called the _____ .

2 Fill in the blank.

If a term in a polynomial only has a number part, it's called a _____ term.

3 How many terms does this polynomial have?

$$5x^3 - x^2 + 5x - 8$$

_____

4 Write the degree of each of these terms in the blank next to it.

$3x^2$ ____

$10x$ ____

$6x^3$ ____

x^2y^2 ____

5 What is the coefficient of the 3rd degree term in this polynomial?

$$3x^2 + x - 2x^3 - 10$$

_____

6 What is the coefficient of the 2nd degree term in this polynomial?

$$x^2 + 2x - 5$$

_____

7 What is the degree of this polynomial?

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

_____

8 What is the degree of this polynomial?

$$4xy - 3y + 8$$

_____

9 Re-arrange this polynomial so its terms are in order from highest to lowest.

$$5x + 2x^3 - 15 - 7x^2$$

10 Re-arrange this polynomial so its terms are in order from highest to lowest.

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