math Antics
Exercises

Name: _____

Date: _____

What Are Polynomials?

1 Fill in the blank.

The number part of a term is called the coefficient .

2 Fill in the blank.

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

3 How many terms does this polynomial have?

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

4

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

$3x^2$ 2 or 2nd

$10x$ 1 or 1st

$6x^3$ 3 or 3rd

x^2y^2 4 or 4th

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

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

-2

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

$x^2 + 2x - 5$

1

7 What is the degree of this polynomial?

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

5 or 5th

8 What is the degree of this polynomial?

$4xy - 3y + 8$

2 or 2nd

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

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

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

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

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

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

See Video for step-by-step solutions to each problem.