

**Algebra 2 Honors**  
**Chapter 3 Vocabulary Review**

Name \_\_\_\_\_  
 Date \_\_\_\_\_ Block \_\_\_\_\_

Define each of the following terms. Include examples or images to enhance your understanding.

Term	Definition
Monomial	
Polynomial	
Degree of a Monomial	
Degree of a Polynomial	
Leading Coefficient	

Complete the table below.

Polynomial	Degree	Classification by Degree
8		
$5x - 3$		
$4x^2 + 5x - 2$		
$5x^3 - 8x^2 + 10x - 1$		
$x^4 - 2x^3 + 9x + 2$		
$3x^5 - 7x^4 + 2x^3 - 8x^2 - 9$		

**Classifying Polynomials by the Number of Terms:**      Ex.  $4x^2 + 3x - 7$

The polynomial above has \_\_\_\_\_ terms. Therefore it is a \_\_\_\_\_.

Polynomial	# of Terms	Classification by the # of Terms
8		
$5x - 3$		
$4x^2 + 5x - 2$		
$5x^3 - 8x^2 + 10x - 1$		<i>polynomial with four terms</i>

Now put it all together. Complete the following table.

<b>Polynomial</b>	<b>Leading Coefficient</b>	<b>Degree</b>	<b>Classification by Degree</b>	<b>Classification by the # of Terms</b>
$2x^3 - 5x^2 - 10x + 9$				
$3x + 1$				
$-6x$				
$-x^2 + 3x + 9$				
$5x^4 - 7x^3 + 4x - 1$				
$9$				
$2x^3 - 8x$				
$x^2 - 4x + 12$				