

Name:	Date:
Topic:	Class:

Main Ideas/Questions	Notes/Examples												
POLYNOMIAL	Examples:												
STANDARD FORM													
EXAMPLES	<p>Directions: Write each polynomial in standard form.</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;">1. $3x + 1 + 2x^2$</td> <td style="width: 50%; padding: 5px;">2. $k^2 + 64 - k + 7k^3$</td> </tr> <tr> <td style="padding: 5px;">3. $w^3 + 5w^2 + 28 - w$</td> <td style="padding: 5px;">4. $24 - n^3 + n$</td> </tr> <tr> <td style="padding: 5px;">5. $2ab + a^3 + 5a^2b^2 - 2b^3$</td> <td style="padding: 5px;">6. $13 - c^3 + 5d^3 - 7c^2d^2$</td> </tr> </table>	1. $3x + 1 + 2x^2$	2. $k^2 + 64 - k + 7k^3$	3. $w^3 + 5w^2 + 28 - w$	4. $24 - n^3 + n$	5. $2ab + a^3 + 5a^2b^2 - 2b^3$	6. $13 - c^3 + 5d^3 - 7c^2d^2$						
1. $3x + 1 + 2x^2$	2. $k^2 + 64 - k + 7k^3$												
3. $w^3 + 5w^2 + 28 - w$	4. $24 - n^3 + n$												
5. $2ab + a^3 + 5a^2b^2 - 2b^3$	6. $13 - c^3 + 5d^3 - 7c^2d^2$												
DEGREE													
CLASSIFYING POLYNOMIALS	<p style="text-align: center;">Polynomials are classified by their degree and number of terms.</p> <table style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr style="background-color: #cccccc;"> <th style="width: 50%; padding: 5px;">DEGREE</th> <th style="width: 50%; padding: 5px;">NUMBER OF TERMS</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">0</td> <td style="padding: 5px;">1</td> </tr> <tr> <td style="padding: 5px;">1</td> <td style="padding: 5px;">2</td> </tr> <tr> <td style="padding: 5px;">2</td> <td style="padding: 5px;">3</td> </tr> <tr> <td style="padding: 5px;">3</td> <td style="padding: 5px;">4+</td> </tr> <tr> <td style="padding: 5px;">4</td> <td style="padding: 5px;"></td> </tr> </tbody> </table>	DEGREE	NUMBER OF TERMS	0	1	1	2	2	3	3	4+	4	
DEGREE	NUMBER OF TERMS												
0	1												
1	2												
2	3												
3	4+												
4													
EXAMPLES	<p>Directions: Classify each polynomial by degree and number of terms.</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;">7. 6</td> <td style="width: 50%; padding: 5px;">8. $-2x$</td> </tr> <tr> <td style="padding: 5px;">9. $7p + 1$</td> <td style="padding: 5px;">10. $v^2 + 2v - 5$</td> </tr> <tr> <td style="padding: 5px;">11. $4a^3 - 8$</td> <td style="padding: 5px;">12. $2m^4 - 7m^2 - 5m + 1$</td> </tr> </table>	7. 6	8. $-2x$	9. $7p + 1$	10. $v^2 + 2v - 5$	11. $4a^3 - 8$	12. $2m^4 - 7m^2 - 5m + 1$						
7. 6	8. $-2x$												
9. $7p + 1$	10. $v^2 + 2v - 5$												
11. $4a^3 - 8$	12. $2m^4 - 7m^2 - 5m + 1$												