**NOTES: INTRODUCTION TO POLYNOMIALS**

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| **QUESTIONS:** | **NOTES:** |
|  | 3x2 + 6x - 8 |
|   | **Polynomial**: an expression consisting of more than two terms**Standard Form:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**NAMING POLYNOMIALS:**1ST: Degree 2nd: Polynomial(highest power exponent) (Number of Terms)0 - \_\_\_\_\_\_\_\_\_\_ 1 - \_\_\_\_\_\_\_\_\_\_\_ 1 - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_2 - \_\_\_\_\_\_\_\_\_\_\_ 2 - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_3 - \_\_\_\_\_\_\_\_\_\_\_ 3 - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_4 - \_\_\_\_\_\_\_\_\_\_\_\_ 4 or more - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_5 - \_\_\_\_\_\_\_\_\_\_\_\_ |
| The degree is the highest sum of the exponents | Find the degree and name of each polynomial. 1. $x+3x^{4}-21x^{2}+x^{3}$
2. $7x^{2}+17-x^{3}+2x$
3. $3g^{2}h^{3}+g^{3}h$
4. $10s^{2}t^{2}+4st^{2}-5s^{3}t^{2}$
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|  | Write the following in Standard Form5. 7*a* + 4 – *a*2 6. 2*x*3 – 9 + 2*x* + 8 – 4*x*We simplify expressions by combining like terms. 7. ( 4x² + 5x ) + ( -7x² + x ) 8. 2( 5x² - 4 ) + 4( 3x² + 8x + 4 ) |
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