

Main Ideas/Questions	Notes/Examples																		
<b>POLYNOMIAL</b>	An expression consisting of many terms Examples: $5, -6x, 4x^2-1, 9x^3+4x^2-x-2$																		
<b>STANDARD FORM</b>	Must be written in alphabetical order with the highest exponent first.																		
<b>EXAMPLES</b>	Directions: Write each polynomial in standard form. <table border="1"> <tr> <td>1. <math>3x+1+2x^2</math> <math>2x^2+3x+1</math></td> <td>2. <math>k^2+64-k+7k^3</math> <math>7k^3+k^2-k+64</math></td> </tr> <tr> <td>3. <math>w^2+5w^2+28-w</math> <math>5w^2+w^2-w+28</math></td> <td>4. <math>24-n^3+n</math> <math>-n^3+n+24</math></td> </tr> <tr> <td>5. <math>2ab+a^2+5a^2b^2-2b^3</math> <math>a^2+5a^2b^2-2b^3+2ab</math></td> <td>6. <math>13-c^3+5d^3-7c^2d^2</math> <math>-c^3-7c^2d^2+5d^3+13</math></td> </tr> </table>	1. $3x+1+2x^2$ $2x^2+3x+1$	2. $k^2+64-k+7k^3$ $7k^3+k^2-k+64$	3. $w^2+5w^2+28-w$ $5w^2+w^2-w+28$	4. $24-n^3+n$ $-n^3+n+24$	5. $2ab+a^2+5a^2b^2-2b^3$ $a^2+5a^2b^2-2b^3+2ab$	6. $13-c^3+5d^3-7c^2d^2$ $-c^3-7c^2d^2+5d^3+13$												
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**EXAMPLES**  
*Addition & Subtraction*

Directions: Find each sum or difference.	
13. $(x+5)+(4x-7)$ $5x-2$	14. $(k^2-4k+7)+(k^2+9k-3)$ $2k^2+5k+4$
15. $(w^3-2w^2-5)+(3w^2-11)$ $w^3+w^2-16$	16. $(9x-5y)+(3x+2y-7)$ $12x-3y-7$
17. $(8-p^2+5p)+(p^2-15-4p)$ $-7+p$ $p-7$	18. $(6a^2-5a)+(a-5a+3a^2)$ $3a^3+6a^2-9a$
19. $(x^2+17x)-(3x^2-5x)$ $-2x^2+12x$	20. $(5r-2s)-(9r-11s)$ $-4r+9s$
21. $(4c-11)-(4c+11)$ $-4c-11$ $-22$	22. $(3m^2+7m-1)-(m^2+2m-5)$ $-m^2-2m+5$ $2m^2+5m+4$
23. $(7v-v^2+14)-(15+8v+v^2)$ $-15-8v-v^2$ $-2v^2-v-1$	24. $(8x-3y)-(2y-13+5x)$ $3x-5y+13$
25. Find the sum of $(8p^2-2p+15)$ and $(11-2p^2-1)$ . $6p^2-2p+25$	
26. Subtract $(2w^2-5w+10)$ from $(w^3+6w^2-2)$ . $(w^3+w^2-2)-(2w^2-5w+10)$ $w^3+4w^2+5w-12$	