**Solving Equations and Simplifying Expressions Review**

Adding Polynomials

(3x2 + 2x – 3) + (-x2 – 3x +2) = 2x2 – x - 1

Subtracting Polynomials

(2x2 + 5x – 3) - (x2 – 2x - 1) = x2 + 7x -2

Multiplying Polynomials

4x (2x – 1) = 8x2 – 4x

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Solving Equations with One Step

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| x + 3 = 10  x+3 - 3 = 10 – 3  x = 7 | x - 6 = 10  x-6 +6 = 10 + 6  x = 16 | 2x = 10  2x = 10  2 2  x = 5 | x = 10  3  x (3) = 10 x 3  3  x = 30 |

Solving Equations with 2 Steps

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| 2x - 3 = 11  2x – 3+ 3 = 11 + 3  2x = 14  2 2  x = 7 | -4x + 2 = 10  -4x+2 - 2 = 10 - 2  -4x = 8  -4 -4  x = - 2 |

Solving HARDER Problems - Use Algebra Tiles!

2(x+1) = 8 4x + 6 = 6x - 10