**Solving Quadratic Equations:**

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| ***Mathenese:*** | Solve x2 + x = 2 |
| ***English:*** | Find the values of x that make the left side and the right side equal. |

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| The easiest way to solve quadratic expressions (anything with x2) is to: | |
| **Example:** Solve x2 + x = 2 | |
| Re-arrange terms to make the equation equal zero  (called **standard form**) |  |
| Factor |  |
| Think: “What values of ***x*** make the equation zero?” |  |

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| **Another Example:** Solve the following by factoring. Verify with a graphing calculator.  x2 + 3x – 18 = 0  **More Examples:** Solve the following by factoring. Verify your solutions with a graphing calculator.   1. x2 – 3x - 10 = 0 2. x2 + 8x - 80 = 0 3. 2x2 + 12x = -10 4. 9x2 – 36 = 0 (Hint: Where is the x term?) 5. 0.125x2 = 0.875x + -1.5 (Hint: What can you multiply all terms by to remove decimals) |