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| 1. Graphing and Quadratic Forms | 1. Solving, x-intercepts, zeros, or roots |
| * Standard to Vertex – Complete the square * Standard to Intercept – Factor * Vertex to Standard – FOIL + Simplify * Intercept to Standard – FOIL http://images.tutorvista.com/cms/images/67/quadratic-graph2.png | * Factor -> Separate -> Solve * Complete the square using a magical *c* value of and then adding/subtracting to make your magic c value. |
| 1. Factoring  * GCF then Tic-Tac-Toe and factors to . * GCF and Difference of Squares and factors to | 1. Radicals |
| 1. Imaginary Numbers | 1. Writing Quadratic Equations |
| * Adding/Subtracting – Just like *x*’s * –Change and FOIL = | * For vertex form use * For Intercept form use |
| 1. Word Problem #1 | 1. Word Problem #2 |
| The dimensions of the old stage at the concert hall were 30 feet wide and 15 feet deep. The new stage has a total area of 1000 square feet. The dimensions of the new stage were created by adding the same distance *x* to the width and the depth of the old stage dimensions. What is the value of *x*?  (Side 1)(Side 2) = New Area  FOIL  FACTOR  Separate + Solve | A contestant tosses a horseshoe from one pit to another with an initial vertical velocity of 50 feet per second. The horseshoe is released 3 feet above the ground. Use the model *h* = − 16*t*2 + 50*t* + 3 where *h* is the height (in feet) and *t* is the time (in seconds) to tell how long the horseshoe was in the air when it’s 2 feet high.  Use quadratic formula. |