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Quadratics Crossword Puzzle

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| **Across**  **2.** y= ax^2 + bx + c  **5.** any number in the form a + bi, where a and b are real numbers and b doesn't equal zero  **7.** an equation that has the radical symbol  **11.** the linear and quadratic graphs don't intersect and no point satisfies both equations  **12.** y= a(x-h)^2 + k  **15.** a number without a variable  **18.** b^2 -4ac  **19.** where the graph crosses the x-axis  **22.** synonym for solution; setting the equation equal to zero to find the value of x  **23.** group ax^2 + bx together and c in a group then add (b/2)^2 to both groups  **24.** x= -b plus or minus the square root of b^2 -4ac divided by 2a (a method of solving quadratic equations  **25.** a number that multiplies by itself to equal a quantity | **Down**  **1.** an algebraic expression that has three terms  **3.** f(x)= ax^2 + bx + c (represents the parabola)  **4.** the linear and quadratic graphs intersect at two places (points), which satisfy both equations  **6.** a line that divides an object in half creating mirror images on either side  **8.** the linear and quadratic graphs intersect at one point, which satisfies both equations  **9.** ax^2 + bx + c (can be solved by graphing, factoring,or completing the square)  **10.** the number in front of (being multiplied by) the variable  **13.** synonym for solution; where the graph crosses the x-axis  **14.** the highest point on a graph  **16.** the lowest point on a graph  **17.** a u-shaped graph with a minimum or maximum vertex  **20.** imaginary numbers and real numbers together (a + bi)  **21.** (h,k) can either be a maximum or a minimum |