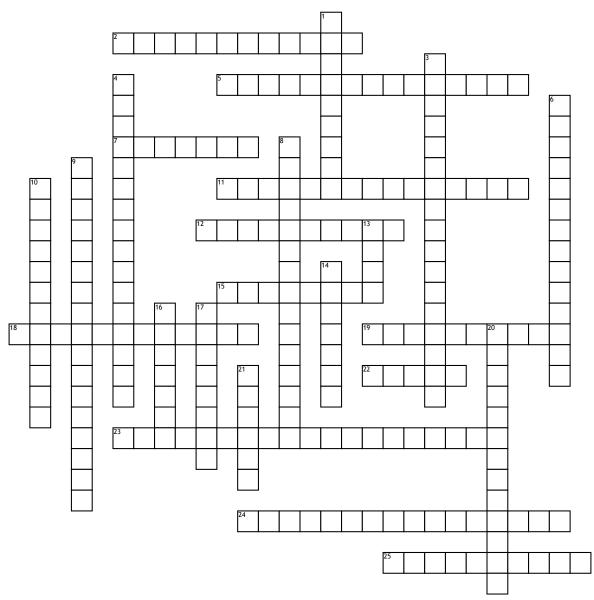
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Quadratics Crossword Puzzle



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