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Quadratics Crossword Puzzle

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|  |  |  |  |  |  | 4T |  |  |  |  | 5I |  M |  A |  G |  I |  N |  A |  R |  Y |  N |  U |  M |  B |  E |  R |  |  |  |  |
|  |  |  |  |  |  |  W |  |  |  |  |  |  |  |  |  |  O |  |  |  |  |  A |  |  |  |  |  | 6A |  |  |
|  |  |  |  |  |  |  O |  |  |  |  |  |  |  |  |  |  M |  |  |  |  |  D |  |  |  |  |  |  X |  |  |
|  |  |  |  |  |  | 7R |  A |  D |  I |  C |  A |  L |  | 8O |  |  I |  |  |  |  |  R |  |  |  |  |  |  I |  |  |
|  |  |  |  | 9Q |  |  E |  |  |  |  |  |  |  |  N |  |  A |  |  |  |  |  A |  |  |  |  |  |  S |  |  |
|  |  | 10C |  |  U |  |  A |  |  |  |  | 11N |  O |  R |  E |  A |  L |  S |  O |  L |  U |  T |  I |  O |  N |  S |  |  O |  |  |
|  |  |  O |  |  A |  |  L |  |  |  |  |  |  |  |  R |  |  |  |  |  |  |  I |  |  |  |  |  |  F |  |  |
|  |  |  E |  |  D |  |  S |  |  |  | 12V |  E |  R |  T |  E |  X |  F |  O | 13R |  M |  |  C |  |  |  |  |  |  S |  |  |
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|  |  |  F |  |  A |  |  L |  |  |  |  |  |  |  |  L |  | 14M |  |  O |  |  |  U |  |  |  |  |  |  M |  |  |
|  |  |  I |  |  T |  |  U |  |  |  |  | 15C |  O |  N |  S |  T |  A |  N |  T |  |  |  N |  |  |  |  |  |  M |  |  |
|  |  |  C |  |  I |  |  T |  | 16M |  | 17P |  |  |  |  O |  |  X |  |  |  |  |  C |  |  |  |  |  |  E |  |  |
|  | 18D |  I |  S |  C |  R |  I |  M |  I |  N |  A |  N |  T |  |  L |  |  I |  | 19X |  I |  N |  T |  E |  R | 20C |  E |  P |  T |  |  |
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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 |