|  |  |  |
| --- | --- | --- |
| Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Date: \_\_\_\_\_\_\_\_\_ | Period: \_\_\_\_\_\_\_ |

Quadratics crossword puzzle

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  | 1X |  I |  N |  T |  E |  R |  C |  E |  P |  T |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | 2C |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | 3Q |  |  |  O |  |  |  |  |  |  |  |  |  | 4C |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  U |  |  |  E |  | 5C |  |  |  |  |  | 6O |  |  O |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  A |  |  |  F |  |  O |  |  |  | 7M |  I |  N |  I |  M |  U |  M |  |  | 8S |  |  |  |  |  |
|  |  |  |  |  |  |  D |  |  |  F |  |  M |  |  |  |  |  |  E |  |  P |  |  |  |  |  Q |  |  |  |  |  |
|  |  |  |  |  |  |  R |  |  |  I |  |  P |  |  |  |  |  |  R |  |  L |  |  |  |  |  U |  |  |  |  |  |
|  |  |  |  |  | 9R |  A |  D |  I |  C |  A |  L |  |  |  |  |  |  E |  |  E |  |  |  |  |  A |  |  |  |  |  |
|  |  |  |  |  |  |  T |  |  |  I |  |  E |  |  |  |  |  |  A |  |  X |  |  |  |  |  R |  |  |  |  |  |
|  |  |  |  | 10F |  O |  I |  L |  |  E |  |  T |  |  | 11Z |  |  |  L |  |  N |  | 12I |  |  |  E |  |  |  |  |  |
|  |  |  |  |  |  |  C |  |  |  N |  |  I |  |  |  E |  |  |  S |  |  U |  |  M |  |  |  D |  |  |  |  |  |
|  |  |  |  |  |  |  F |  | 13S |  T |  A |  N |  D |  A |  R |  D |  F |  O |  R |  M |  |  A |  | 14V |  E |  R |  T |  E |  X |  |
|  |  |  | 15C |  |  |  O |  |  |  S |  |  G |  |  |  O |  |  |  L |  |  B |  |  G |  |  |  X |  |  |  |  |  |
|  |  |  |  O |  |  |  R |  |  |  |  |  T |  |  |  |  |  |  U |  |  E |  |  I |  |  |  P |  |  |  |  |  |
|  |  |  |  N |  |  |  M |  |  |  |  |  H |  |  | 16F |  A |  C |  T |  O |  R |  I |  N |  G |  |  O |  |  |  |  |  |
|  |  |  |  S |  |  |  U |  |  |  |  |  E |  |  |  |  |  |  I |  |  |  |  A |  |  |  N |  |  |  |  |  |
|  |  |  |  T |  |  |  L |  |  |  |  |  S |  |  |  |  |  |  O |  |  |  |  R |  |  |  E |  |  |  |  |  |
|  | 17Q |  U |  A |  D |  R |  A |  T |  I |  C |  E |  Q |  U |  A |  T |  I |  O |  N |  |  |  |  Y |  |  |  N |  |  |  |  |  |
|  |  |  |  N |  |  |  |  |  |  |  |  U |  |  |  |  |  |  |  |  |  |  U |  |  |  T |  |  |  |  |  |
|  |  |  |  T |  |  |  |  | 18S |  Q |  U |  A |  R |  E |  R |  O |  O |  T |  |  |  |  N |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  R |  |  |  |  |  |  |  |  |  |  I |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | 19V |  E |  R |  T |  E |  X |  F |  O |  R |  M |  |  T |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | 20D |  I |  S |  C |  R |  I |  M |  I |  N |  A |  N |  T |  |  |  |  |  |  |  |  |  |  |

|  |  |
| --- | --- |
| **Across****1.** where the graph crosses the x-axis, and the y-intercepts are where the graph crosses the y-axis**7.** value of a function is the place where the graph has a vertex at its lowest point**9.** (√) symbol**10.** First, Outer, Inner, Last. First means multiply the terms which occur first in each binomia**13.** a line is in the form Ax + By = C where A is a positive integer, and B, and C are integers.**14.** a corner or a point where lines meet.**16.** an important process in algebra which is used to simplify expressions, simplify fractions, and solve equations.**17.** the highest exponent of this function is 2. The standard form of a quadratic is y = ax^2 + bx + c, where a, b, and c are numbers and a cannot be 0**18.**  a number is a value that, when multiplied by itself, gives the number. Example: 4 × 4 = 16, so a square root of 16 is 4.**19.** the common point to join the two line segments**20.** The number D = b2 – 4ac determined from the coefficients of the equation ax2 + bx + c = 0. | **Down****2.**  6z means 6 times z, and "z" is a variable, so 6**3.** the formula for determining theroots of a quadratic equation from its coefficients: .**4.** a quantity of the form v + iw, where v and w are real numbers**5.** a technique used to solve quadratic equations, graph quadratic functions, and evaluate integrals**6.** it "discriminates" between the possible solutions**8.** In 8^2 the "2" says to use 8 twice in a multiplication, so 82 = 8 × 8 = 64. In words: 82 could be called "8 to the power 2" or "8 to the second power**11.** also sometimes called a root, of a real-, complex- or generally vector-valued function f is a member x of the domain of f such that f(x) vanishes at x; that is, x is a solution of the equation f(x) = 0.**12.** if you square any Real Number you always get a positive, or zero, result. For example 2×2=4, and (-2)×(-2)=4 as well**15.** a number on its own, or sometimes a letter such as a, b or c to stand for a fixed number |