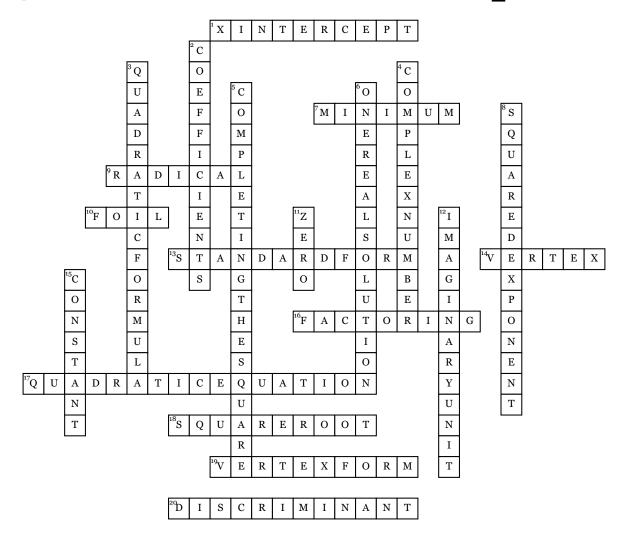
Name:	Date:	Period:
-------	-------	---------

## Quadratics crossword puzzle



## 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.**  $(\sqrt{})$  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 o

- **18.** a number is a value that, when multiplied by itself, gives the number. Example:  $4 \times 4 = 16$ , so a square root of 16 is
- **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,
- **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  $82 = 8 \times 8 = 64$ . 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  $2\times2=4$ , and  $(-2)\times(-2)=4$  as well
- **15.** a number on its own, or sometimes a letter such as a, b or c to stand for a fixed number