Name: _____   Date: _____

Quadratics Crossword Puzzle

The crossword grid contains the following filled answers:

- 1 Across: ONE REAL SOLUTION
- 5 Across: QUADRATIC FORMULA
- 8 Across: SQUARE ROOT
- 9 Across: RADICAL
- 10 Across: AXIS OF SYMMETRY
- 16 Across: VERTEX FORM
- 21 Across: DISCRIMINANT
- 23 Across: BINOMIAL SSQUARED
- 25 Across: COMPLETING THE SQUARE
- 27 Across: QUADRATIC EQUATION
- 30 Across: TRINOMIAL
- 31 Across: CONSTANT
- 32 Across: X INTERCEPT
- 33 Across: TWO REAL SOLUTIONS

Down entries include: CONJUGATES, MUX, ZEROS, IMAGINARY, QUADRATIC, COMPLEX, SQUARE, NONREAL, FOIL, PARABOLA, TBC, INTEGER, NUMBER, COMPLEXNUMBER, FUNCTIONTABLE, FACTOR, MINIMUM, VERTEX, ROOTS, etc.
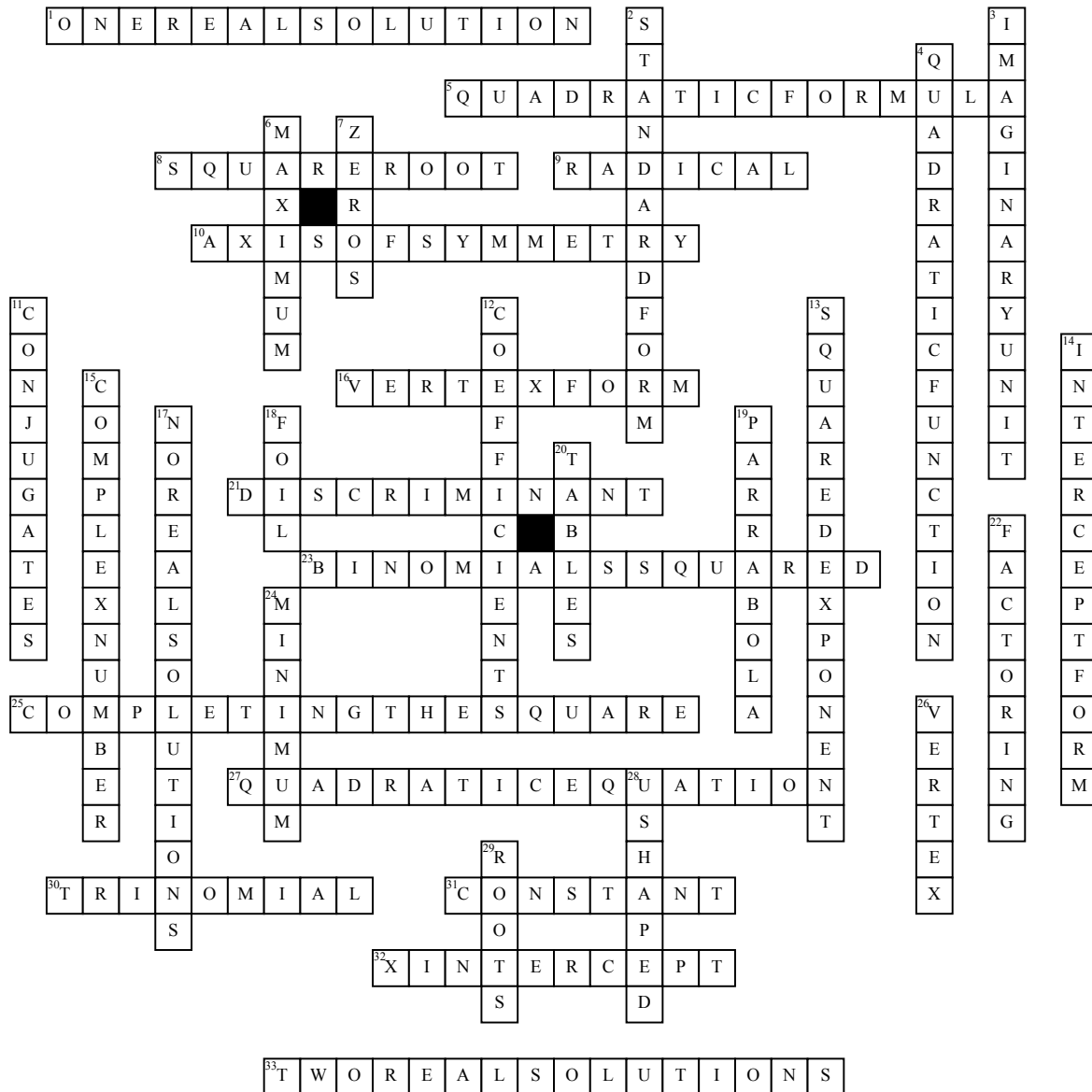
Across

1. The value of only one solution, root, or x-intercept the quadratic equation will have

5. my formula is $ax^2+bx+c=0$

8. When multiplied by itself, gives the number

9. My symbol is ($\sqrt{\ }$)

10. You find me by using the formula $-b/2a$

16. $f(x) = a(x - h)^2 + k$, where (h, k) is the vertex of the parabola

21. Reveals what type of roots the equation has.

23. It simply means to multiply it by itself(binomial)

25. Is a technique used to solve quadratic equations, graph quadratic functions, and evaluate integrals

27. $y = ax^2 + bx + c$, where a, b, and c are numbers and a cannot be 0.

30. Equation that has three terms which are connected by plus or minus notations

31. Number on its own, or sometimes a letter such as a, b or c to stand for a fixed number

32. Are where the graph crosses the x-axis

33. The value of two solutions, roots, or x-intercepts the quadratic equation will have

Down

2. Is another way to write slope (as opposed to y=mx+b)

3. One that when squared gives a negative result

4. $f(x) = ax^2 + bx + c$

6. The value of a function at a certain point in its domain, which is greater than or equal to the values at all other points

7. Also sometimes called a root, of a real-, complex- or generally vector-valued function

11. $x + y$ is $x − y$, where x and y are real numbers. If y is imaginary

12. 6z means 6 times z, and "z" is a variable, so 6 is a ...

13. Refers to the number of times a number is multiplied by itself(exponent)

14. The equation of a straight line

15. Is a number that can be expressed in the form $a + bi$, where a and b are real numbers, and i is the imaginary unit

17. The value of not having any solutions, roots, or x-intercepts the quadratic equation will have

18. A technique for distributing two binomials(First, Outer, Inner, Last)

19. A u-shaped curve with certain specific properties

20. Describes a function by displaying inputs and corresponding outputs in tabular form

22. Used to simplify expressions, simplify fractions, and solve equations

24. Vertex at its lowest point

26. A point where two or more curves, lines, or edges meet

28. The shape of a Parabola

29. Are exactly the x-intercepts of the quadratic function