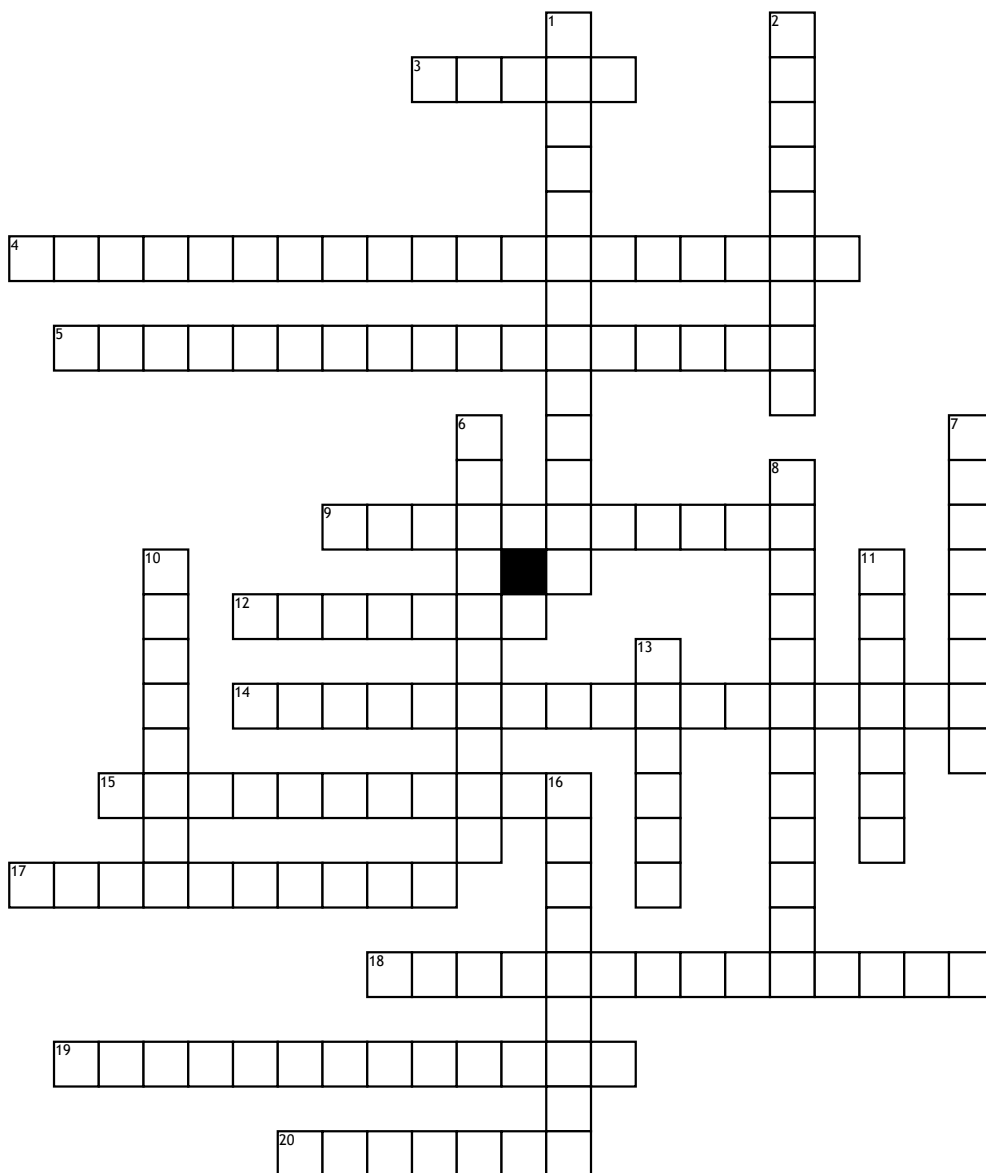


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# Quadratic Vocabulary



## Across

3. 20. members  $x$  of the domain of  $f$  such that  $f(x)$  vanishes at  $x$   
 4. 16. a technique used to solve quadratic equations, graph quadratic functions, and evaluate integrals  
 5. one of the form  $f(x) = ax^2 + bx + c$ , where  $a$ ,  $b$ , and  $c$  are numbers with  $a$  not equal to zero.  
 9. 9. the point at which the graph of an equation crosses the  $x$ -axis.  
 12. 19. the place where the graph has a vertex at its lowest point  
 14. 4. an equation containing a single variable of degree 2  
 15. 5. is a number used to multiply a variable  
 17. 6. number is a value that, when multiplied by itself, gives the number

18. 10. A line through a shape so that each side is a mirror image.

19. 13. one that when squared gives a negative result

20. 12. An expression that has a square root, cube root, etc.

## Down

1. 7. a number that can be expressed in the form  $a + bi$ , where  $a$  and  $b$  are real numbers, and  $i$  is the imaginary unit  
 2. simplify expressions, simplify fractions, and solve equations  
 6. 14. where you change the sign in the middle of two terms  
 7. 15. a number on its own, or sometimes a letter such as  $a$ ,  $b$  or  $c$  to stand for a fixed number  
 8. 17. another way of writing the equation of a line.

10. 2. a plane curve generated by a point moving so that its distance from a fixed point is equal to its distance from a fixed line

11. 18. 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 in the immediate vicinity of the point

13. 8. the highest or lowest point, also known as the maximum or minimum of a parabola.

16. 11. A mathematical expression that is the sum of three monomials