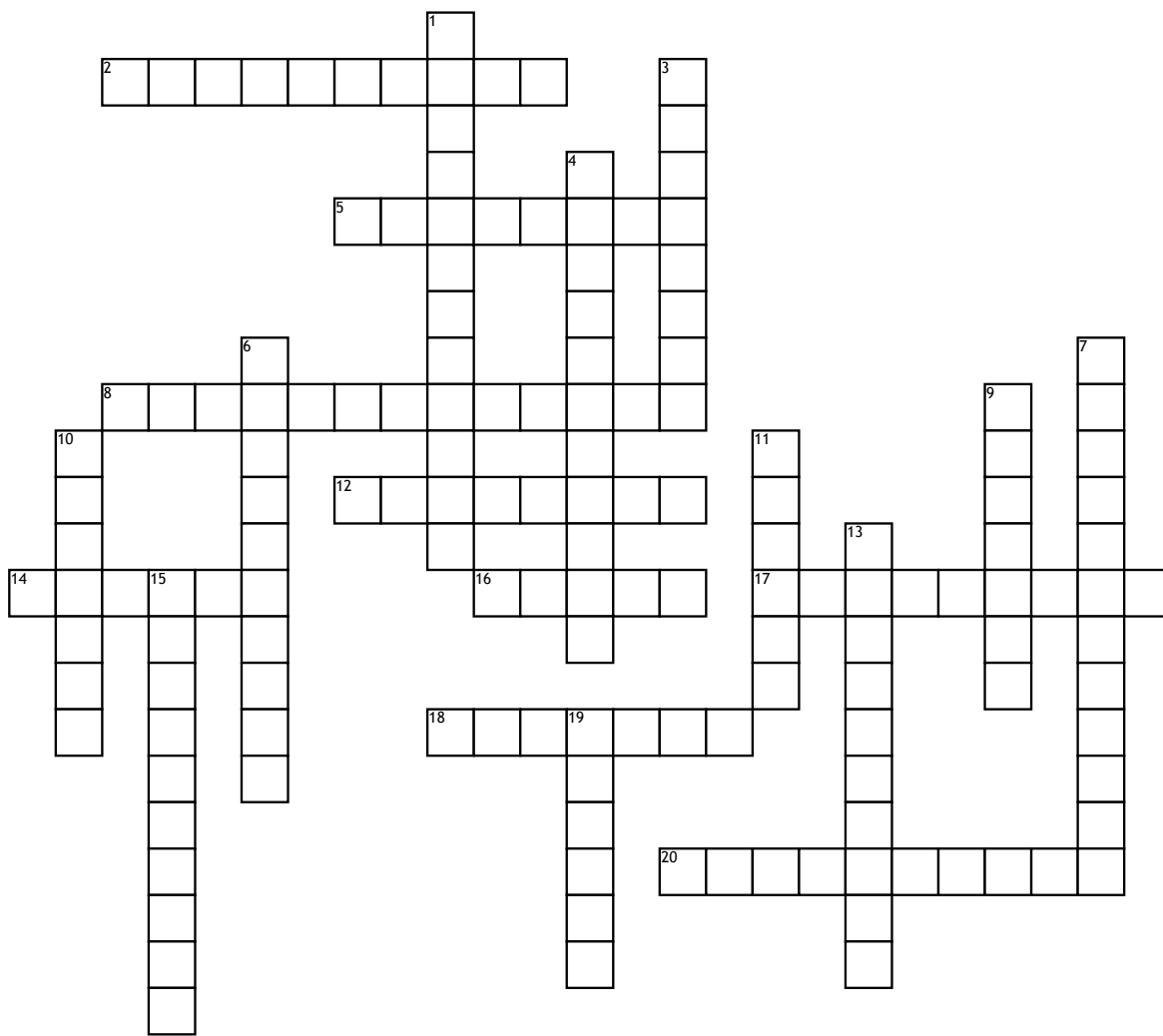


Algebra 2 Crossword



Across

2. an expression consisting of variables (also called indeterminates) and coefficients, that involves only the operations of addition, subtraction, multiplication, and non-negative integer exponents of variables
5. the locus of points such that the distance to the focus equals the distance to the directrix.
8. The function of the coefficient in the general equation is to make the graph "wider" or "skinnier", or to reflect it (if negative)
12. an algebraic expression of the sum or the difference of two terms.
14. any of several algebraic systems, especially a ring in which elements can be multiplied by real or complex numbers as well as by other elements of the ring

16. the set of all possible x-values which will make the function "work", and will output real y-values

17. A mathematical expression that is the sum of three monomials

18. When two numbers are multiplied together

20. a quadratic function is given by. $f(x) = a(x - h)^2 + k$, where (h, k)

Down

1. a function of the coefficients of a polynomial equation whose value gives information about the roots of the polynomial.

3. A written statement indicating the equality of two expressions

4. a numerical or constant quantity placed before and multiplying the variable in an algebraic expression (e.g., 4 in $4x$ y).

6. this line is the value of y at the point where the line crosses the y axis.

7. a line is in the form $Ax + By = C$ where A is a positive integer, and B, and C are integers

9. 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

10. value of a function is the place where the graph has a vertex at its lowest point

11. A parabola is the shape defined by a quadratic equation

13. where the graph crosses the x-axis

15. a mathematical phrase that can contain ordinary numbers, variables (like x or y) and operators (like add,subtract,multiply, and divide)

19. a term is the sum of the exponents of the variables that appear in it, and thus is a non-negative integer