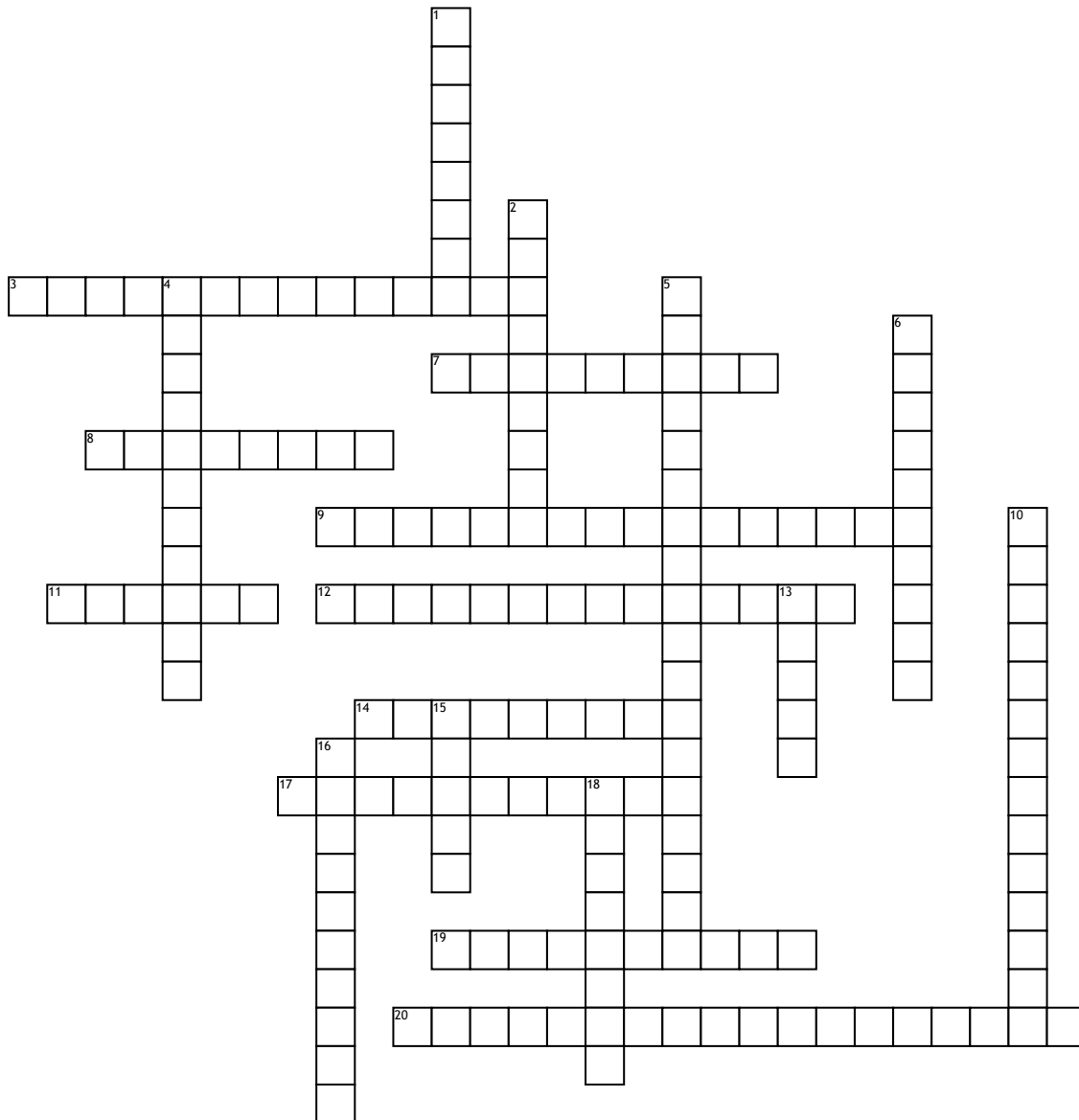


Algebra Crossword



Across

3. a line of symmetry for a graph
 7. a conic section that can be thought of as an inside-out ellipse
 8. a symbol (like x or y) that is used in mathematical or logical expressions to represent a variable quantity
 9. x value, because y depends on the x value
 11. the set of values of the independent variable for which a function is defined
 12. $y - y_1 = m(x - x_1)$, where m is the slope and (x_1, y_1) is the point the line is passing through.
 14. the slope of a horizontal line
 17. the y -coordinate of the point where the line crosses the y -axis.

19. the sum or difference of terms which have variables raised to positive integer powers and which have coefficients that may be real or complex.

20. Two lines that intersect to form right angles

Down

1. a term or expression for which any variables cancel out
 2. a line or curve that the graph of a relation approaches more and more closely the further the graph is followed.
 4. a pair of numbers that can be used to locate a point on a coordinate plane
 5. an equation written in the form $y = mx + b$ is in slope-intercept form. The graph is a line with slope m and y -intercept b .

6. the side opposite the right angle in a right triangle

10. the y value, because it depends on the value of x

13. the limits of the values a function can take

15. a comparison of two numbers by division

16. the x -coordinate of a point where a graph crosses the x -axis

18. a mathematical notation indicating the number of times a quantity is multiplied by itself