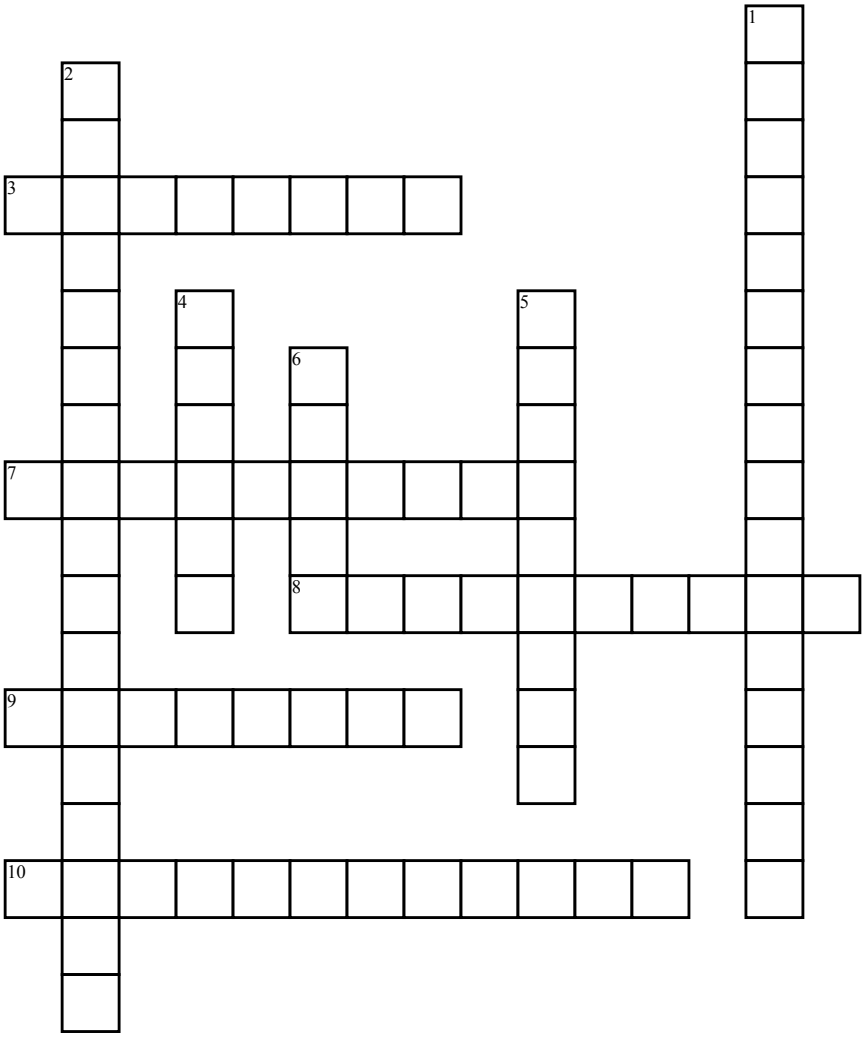
Quadratics



Across

3. A symmetrical open plane curve formed by the intersection of a cone with a plane parallel to its side.
7. Each parabola contains a y-intercept, the point at which the function crosses the y-axis; the opposite of this.
8. The inverse of a parabola.
9. When used in quadratics, another name for a parabola rising or falling forever: can be negative or positive.
10. Tells you about the "nature" of the roots of a quadratic equation given that a, b and c are rational numbers.

Down

1. Equations usually written in the following form, where A, B, and C are constants and x represents an unknown. Solve to find the unknown.
2. A polynomial function in one or more variables in which the highest-degree term is of the second degree.
4. The point on the parabola that intersects the axis of symmetry.
5. An important process in algebra which is used to simplify expressions, simplify fractions, and solve equations.
6. The points where the graph of the quadratic equation crosses the x-axis.

Word Bank

Parabola	Square Root	Quadratic Formula	X-Intercept
Zeros	Infinity	Vertex	Discriminant
Factoring	Quadratic Function		