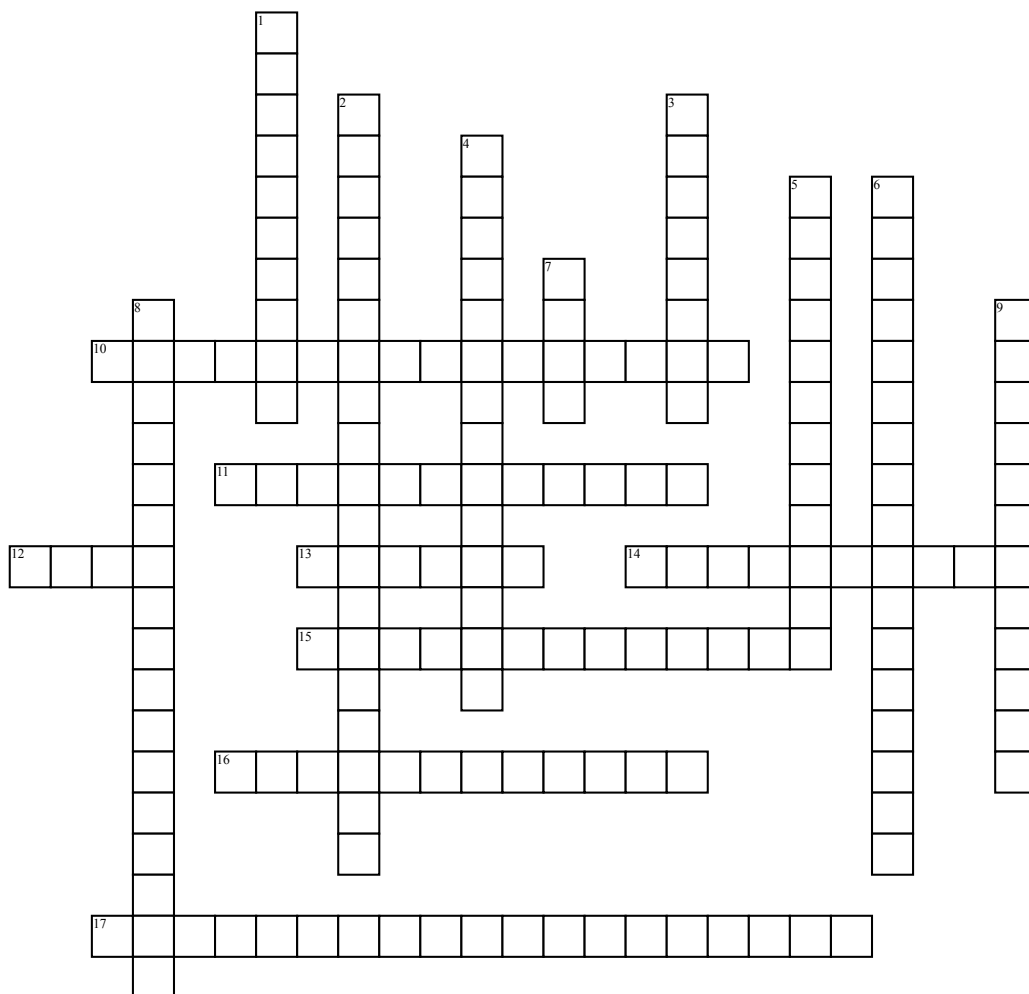


# Quadratic Crossword By Tavion Patten



## Across

**10.** the solutions of a quadratic equation of the form  $a \neq 0$ ,  $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

**11.** the y-coordinate of the vertex of the quadratic function where  $a < 0$

**12.** the solutions of a quadratic equation

**13.** the point at which the axis of symmetry intersects a parabola

**14.** a quadratic function in the form  $y = a(x-h)^2 + k$ , where  $(h,k)$  is the vertex of the parabola and  $x=h$  is the axis of symmetry

**15.**  $ax^2$

**16.** the y-coordinate of the vertex of the quadratic function where  $a > 0$

**17.** a process used to make a quadratic expression into a perfect square trinomial

## Down

**1.**  $bx$

**2.** inequality of the parabola

**3.** the set of all points in a plane that are the same distance from a given point, called the focus, and a given line, called the directrix

**4.** a line about which a figure is symmetric

**5.**  $c$

**6.** a function described by the equation  $f(x) = ax^2 + bx + c$ , where  $a \neq 0$

**7.** the x-intercepts of the graph of a quadratic equations

**8.** a quadratic function set equal to a value

**9.** in the quadratic formula, the expression  $b^2 - 4ac$

## Word Bank

maximum value  
vertex form  
discriminant  
minimum value  
vertex

parabola  
axis of symmetry  
quadratic formula  
quadratic term

completing the square  
quadratic function  
quadratic equation  
linear term

constant term  
root  
zero  
quadratic inequality