

Name: _____

Date: _____

Class/Home worksheet: Alg2H
Quadratic equation: Discriminant and solutions.

An equation of the type

$$ax^2 + bx + c = 0$$

where a,b, and c are constants, and $a \neq 0$, is called **standard form of the quadratic equation.**

$$x_{1,2} = \frac{-b \pm \sqrt{\quad}}{2a}$$

Discriminant:

Properties of the solution

$$ax^2 + bx + c = 0$$

$$x_{1,2} = \frac{-b \pm \sqrt{\quad}}{2a}$$

Sum of solutions:

Product of solutions: