

Definition

thm 1. *A quadratic equation is an equation of the form*

$$ax^2 + bx + c = 0, \tag{1}$$

where a, b and c are constants and $a \neq 0$.

Theorem 1. *A quadratic equation 1 has two solutions for the variable x :*

$$x_{1,2} = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}. \tag{2}$$