

$$ax^2 + bx + c = 0 \quad (a \neq 0)$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2}$$

(5T1)

$$a \left(x^2 + \frac{b}{a}x + \frac{c}{a} \right) = 0$$

$$\left(x^2 + \frac{b}{a}x + \left(\frac{b}{2a} \right)^2 + \frac{c}{a} - \left(\frac{b}{2a} \right)^2 \right) = 0$$

$$\left(x + \frac{b}{2a} \right)^2 = \frac{b^2 - 4ac}{4a^2}$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

(5T2)

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

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$$4a^2x^2 + 4abx + 4ac = 0$$

$$\frac{(2ax)^2 + 2 \cdot (2ax) \cdot b + b^2 - b^2 + 4ac = 0}{(2ax + b)^2 = b^2 - 4ac}$$