

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

$$\frac{x^2}{a} + \frac{bx}{a} + \frac{c}{a} = 0$$

$$x^2 + \frac{bx}{a} = -\frac{c}{a}$$

$$x^2 + \frac{bx}{a} + \frac{b^2}{4a} = \frac{b^2}{4a} - \frac{c}{a}$$

$$x^2 + \frac{bx}{a} + \frac{b^2}{4a^2} = \frac{b^2 - 4ac}{4a^2}$$

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

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

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

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

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

~~$$x^2 + \frac{b}{a}x + \frac{c}{a} = 0 - \frac{c}{a}$$~~

~~$$x^2 =$$~~

$$ax^2$$