

## Quadratic Formula

(i) Derivation of quadratic formula by using completing square method.

The quadratic of equation in standard form is,

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

Dividing each term of the equation by a, we get

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

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

By completing square

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

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

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

Taking square root

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

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

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

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

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

Example 1:

$$2 + 9x = 5x^2$$

Solve:

$$5x^2 - 9x - 2 = 0$$

$$a = 5$$

$$b = -9$$

$$c = -2$$

Putting value in quadratic formula,

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

$$x = \frac{-(-9) \pm \sqrt{(-9)^2 - 4(5)(-2)}}{2(5)}$$

$$x = \frac{9 \pm \sqrt{81 + 40}}{10}$$

$$x = \frac{9 \pm \sqrt{121}}{10} \Rightarrow x = \frac{9 \pm 11}{10}$$

$$x = \frac{9 + 11}{10} \quad \cdot \quad x = \frac{9 - 11}{10}$$

$$x = \frac{20}{10} \quad \cdot \quad x = \frac{-2}{10}$$

$$\boxed{x = 2} \quad \cdot \quad \boxed{x = -\frac{1}{5}}$$

$$S.S = \left\{2, -\frac{1}{5}\right\}$$

Example 2:

$$\frac{2x+1}{x+2} - \frac{x-2}{x+4} = 0$$

Solve:

$$\Rightarrow \frac{(2x+1)(x+4) - (x-2)(x+2)}{(x+2)(x+4)} = 0$$

$$\Rightarrow (2x+1)(x+4) - (x-2)(x+2) = 0$$

$$2x^2 + 8x + x + 4 - (x^2 - 4) = 0$$

$$2x^2 + 8x + x + 4 - x^2 + 4 = 0$$

$$x^2 + 9x + 8 = 0$$

$$a = 1$$

$$b = 9$$

$$c = 8$$

Using quadratic formula

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

$$x = \frac{-9 \pm \sqrt{9^2 - 4(1)(8)}}{2(1)}$$

$$x = \frac{-9 \pm \sqrt{81 - 32}}{2}$$

$$x = \frac{-9 \pm \sqrt{49}}{2} \Rightarrow x = \frac{-9 \pm 7}{2}$$

$$x = \frac{-9 + 7}{2} \quad \cdot \quad x = \frac{-9 - 7}{2}$$

$$x = \frac{-2}{2} \quad \cdot \quad x = \frac{-16}{2}$$

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