

Quadratic Equations – Summary Notes

- **Common Factor or Common Divisor:** Any number, algebraic letter or expression, that divides each of the given expressions exactly, is called a common factor or common divisor of the given expressions.
- **Quadratic Equation:** Any equation that can be written in the form of $ax^2 + bx + c = 0$, where $a \neq 0$ is a quadratic equation.
- **Roots of a Quadratic Equation:** The values of x which satisfy $ax^2 + bx + c = 0$ are called its roots. If $ax^2 + bx + c = 0$ can be expressed as the product of two linear factors, viz., $(px + q)$ and $(rx + s)$, where $p \neq 0, r \neq 0$, then either $x = \frac{-q}{p}$ or $x = \frac{-s}{r}$. Hence, the two possible roots of the given quadratic equation are $\frac{-q}{p}$ and $\frac{-s}{r}$.
- **Quadratic Formula (Shreedharacharya's Rule):** Let α and β be the roots of the quadratic equation $ax^2 + bx + c = 0$, where $a, b, c \in \mathbb{R}$ and $a \neq 0$.
Then:

$$\alpha = \frac{-b + \sqrt{b^2 - 4ac}}{2a} \text{ and } \beta = \frac{-b - \sqrt{b^2 - 4ac}}{2a}$$
- Sum of the roots $= \alpha + \beta = \frac{-b}{a} = -\left(\frac{\text{Coefficient of } x}{\text{Coefficient of } x^2}\right)$.
- Product of the roots $= \alpha\beta = \frac{c}{a} = \left(\frac{\text{Constant term}}{\text{Coefficient of } x^2}\right)$.
- **Discriminant:** For the equation $ax^2 + bx + c = 0$, the quantity $b^2 - 4ac$ is called the discriminant of the quadratic equation and it is denoted by D .
- **Nature of roots:**
 - If $D > 0$, both the roots are real and distinct.
 - If $D = 0$, both the roots are real and equal.
 - If $D < 0$, both the roots are imaginary.
 - If D is a perfect square, both the roots are rational and distinct.
- **Quadratic equation with roots α and β :** The quadratic equation with roots α and β is given by: $x^2 - x(\text{Sum of the roots}) + \text{Product of roots} = 0$
i.e., $x^2 - x(\alpha + \beta) + \alpha\beta = 0$.
 - If α is a root of the equation $ax^2 + bx + c = 0$, then $(x - \alpha)$ is its one factor.
 - If α and β are the roots of $ax^2 + bx + c = 0$, then $ax^2 + bx + c = a(x - \alpha)(x - \beta)$.

Chapter 5 Quadratic Functions Answers

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