

Mathematics

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(Chapter - 2) (Polynomials) (Exercise 2.2)

(Class X)

Question 1:

Find the zeroes of the following quadratic polynomials and verify the relationship between the zeroes and the coefficients.

(i). $x^2 - 2x - 8$

(ii). $4s^2 - 4s + 1$

(iii). $6x^2 - 3 - 7x$

(iv). $4u^2 + 8u$

(v). $t^2 - 15$

(vi). $3x^2 - x - 4$

Answer 1:

(i) $x^2 - 2x - 8$

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

$$= x(x - 4) + 2(x - 4)$$

$$= (x + 2)(x - 4)$$

The value of $x^2 - 2x - 8$ is zero if $x + 2 = 0$ or $x - 4 = 0$

$$\Rightarrow x = -2 \text{ or } x = 4$$

Therefore, the zeroes of $x^2 - 2x - 8$ are -2 and 4 . Now

$$\text{Sum of zeroes} = -2 + 4 = 2 = \frac{-(-2)}{1} = \frac{-(\text{Coefficient of } x)}{\text{Coefficient of } x^2}$$

$$\text{Product of zeroes} = (-2) \times 4 = -8 = \frac{-8}{1} = \frac{\text{Constant term}}{\text{Coefficient of } x^2}$$

(ii) $4s^2 - 4s + 1$

$$= 4s^2 - 2s - 2s + 1$$

$$= 2s(2s - 1) - 1(2s - 1)$$

$$= (2s - 1)(2s - 1)$$

The value of $4s^2 - 4s + 1$ is zero if $2s - 1 = 0$

$$\Rightarrow s = \frac{1}{2}$$

Therefore, the zeroes of $4s^2 - 4s + 1$ are $\frac{1}{2}$ and $\frac{1}{2}$. Now

$$\text{Sum of zeroes} = \frac{1}{2} + \frac{1}{2} = 1 = \frac{-(4)}{4} = \frac{-(\text{Coefficient of } s)}{\text{Coefficient of } s^2}$$

$$\text{Product of zeroes} = \frac{1}{2} \times \frac{1}{2} = \frac{1}{4} = \frac{1}{4} = \frac{\text{Constant term}}{\text{Coefficient of } s^2}$$

(iii) $6x^2 - 3 - 7x$

$$= 6x^2 - 7x - 3$$

$$= 6x^2 - 9x + 2x - 3$$

$$= 3x(2x - 3) + 1(2x - 3)$$

$$= (3x + 1)(2x - 3)$$

The value of $6x^2 - 7x - 3$ is zero if $3x + 1 = 0$ or $2x - 3 = 0$.

$$\Rightarrow x = -\frac{1}{3} \text{ or } x = \frac{3}{2}$$

Therefore, the zeroes of $6x^2 - 7x - 3$ are $-\frac{1}{3}$ and $\frac{3}{2}$. Now

$$\text{Sum of zeroes} = -\frac{1}{3} + \frac{3}{2} = \frac{-2 + 9}{6} = \frac{7}{6} = \frac{-(-7)}{6} = \frac{-(\text{Coefficient of } x)}{\text{Coefficient of } x^2}$$

$$\text{Product of zeroes} = \left(-\frac{1}{3}\right) \times \frac{3}{2} = -\frac{1}{2} = \frac{-3}{6} = \frac{\text{Constant term}}{\text{Coefficient of } x^2}$$

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