

Class 10 Mathematics - Polynomials

Name: _____

Date: _____

Advanced Worksheet 1

Questions

1. Find the sum of the zeroes of the polynomial:

$$x^2 - 7x + 12$$

2. Find the product of the zeroes of:

$$x^2 - 7x + 12$$

3. Find the sum and product of the zeroes of:

$$2x^2 - 9x + 4$$

4. Find the sum and product of the zeroes of:

$$5x^2 + 11x + 2$$

5. State the relationship between the zeroes and coefficients of $ax^2 + bx + c$.

6. Without finding the zeroes, determine the sum and product of the zeroes of:

$$3x^2 - 10x - 8$$

Answer Key

1. 7
2. 12
- 3.

$$\text{Sum} = -(-9)/2$$

$$= 9/2$$

$$\text{Product} = 4/2$$

$$= 2$$

4.

$$\text{Sum} = -11/5$$

$$\text{Product} = 2/5$$

5.

$$\text{Sum of Zeroes} = -b/a$$

$$\text{Product of Zeroes} = c/a$$

6.

$$\text{Sum} = 10/3$$

$$\text{Product} = -8/3$$

