



SATISH CHANDRA MEMORIAL SCHOOL

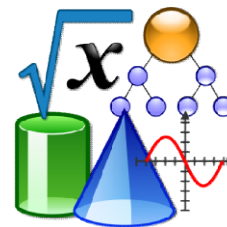
IX CASE STUDY (Ch: Polynomials)

by

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CASE STUDY BASED QUESTIONS:-

Ram and Gouri start a new business together. The amount invested by both partners together is given by the polynomial $p(x) = 4x^2 + 12x + 5$, which is the product of their individual shares.



NOW ON THE BASIS OF YOUR UNDERSTANDING OF THE CASE STUDY ANSWER THE FOLLOWING:-

1. Find the individual share of Ram and Gouri.
 - a. $(2x+6)(2x-5)$
 - b. $(2x+7)(2x+1)$
 - c. $(2x+5)(2x+1)$
 - d. None of the above
2. Coefficient of x^2 in the given polynomial is:
 - a. 5
 - b. 4
 - c. 2
 - d. 0
3. Find the remainder when divided by $g(x) = x+1$
 - a. 2
 - b. 3
 - c. -3
 - d. 0
4. Which type of polynomial is $p(x)$ on the basis of number of terms?
 - a. Binomial
 - b. Monomial
 - c. Cubic
 - d. Trinomial
5. Name the polynomial of amounts invested by each partner.
 - a. Cubic
 - b. Quadratic
 - c. Linear
 - d. Polynomial