

Chapter 7 : Algebraic Expressions

A : Choose the correct alternatives in each of the following:

(1 × 5 = 5)

- In the algebraic expressions $x^2 + 2xy + y^2 + 17$, 17 is
 (a) variable (b) constant term (c) like term (d) unlike term
- $x^2 - y^2$ is same as
 (a) $y^2 - x^2$ (b) $x^2 - y^2$ (c) $-(y^2 - x^2)$ (d) none of these
- When we simplify the expression $[p - (p - q) - q - (q - p)]$, we get
 (a) $p - q$ (b) $q - p$ (c) $-2p$ (d) $-2q$
- If $a = 2$, $b = -2$, then the value of $(a^2 + 2ab + b^2)$ is
 (a) 4 (b) 2 (c) 0 (d) 6
- Which one is a pair of monomial and binomial?
 (a) $x, x^2 - 9$ (b) $x^2 - 3, x^2 + 9$ (c) $x^2, 3x^2$ (d) $x - 7, x^2 + 2y + 3$

B : Solve the following:

(3 × 5 = 15)

- Ravi spends ₹ $(3a + 4b)$ for a shirt and ₹ $(7a - 5b)$ for a pent. How much does he spend in all?
- From the sum of $4x^2 - 6x + 3$ and $-4x^2 - 7x + 5$, subtracted $3x^2 - 8x + 6$.
- The side of a square $(7x + 5)$ metres. Find its perimeter.
- If $A = -5x^2 - 8x + 1$, $B = 3x^2 + 7x + 8$, $C = 2x^2 + x - 9$, Then show that $A + B + C = 0$
- The length and breadth of a rectangular piece of paper are $(2x + 5)$ cm and $(x + 2)$ cm respectively. Find its perimeter, if $x = 2$, then also find the perimeter in numerals.