



INDIAN SCHOOL AL WADI AL KABIR

Class VII, Mathematics (2023-24)

Worksheet DTQ – ALGEBRAIC EXPRESSIONS

SHORT ANSWER TYPE QUESTIONS- 7 QUESTIONS. (2 Marks each)

- Q1.** Subtract $2a^2b - 4ab^2$ from $-3a^2b - 7ab^2$
- Q2.** Simplify $-3x + (-5y) + x - (-4y)$
- Q3.** Write the algebraic expressions for the following statements:
 i) Number 9 added to five times the product of numbers 'p' and 'q'.
 ii) Twice the product of the numbers 'a' and 'b' subtracted from the sum of numbers 'a' and 'b'.
- Q4.** Identify the numerical coefficients of terms (other than constants) in the following expressions:
 i) $2a^2b - 4ab^2 - 7$
 ii) $x^2y^2 - 7y - 6x^3$
- Q5.** Classify into monomials, binomials and trinomials.
 i) $1+x+x^2$
 ii) $-4mn$
 iii) $xyz - 7$
 iv) $-a^2b + 7pq$
- Q6.** State whether the given pairs is like or unlike terms.
 i) 1, 41
 ii) $-7x, -\frac{2}{11}x$
 iii) $40mn, 40nm$
 iv) $-5m^2p, -5mp^2$
- Q7.** Identify terms which contain x^2 and give the coefficient of x^2 :
 i) $3x^2 + 5y$
 ii) $7x^2y - 11xy^2 + 2x^2$

SHORT ANSWER TYPE- 5 QUESTIONS. (3 Marks each)

- Q8.** A lady works $3t$ hours each day from Monday to Friday. She works $(5t + a)$ hours on Saturdays. She does not work on Sundays.
 a) Express the working hours in a week in terms of t and a .
 b) How many hours does she work each week when $t = 4$ and $a = 5$.

