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## Assignments Class 8 for Algebraic Expressions and Identities Exercise 1

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### Question 1

Identify the terms, their coefficients for each of the following expressions.

(i)  $xyz^2 + 3xy$

(ii)  $1 - x - 2x^2$

(iii)  $4P^2q^2 - 4P^2q^2r^2 + r^2$

(iv)  $4 - xy + yz - xz$

(v)  $\left(\frac{x}{4}\right) - \left(\frac{y}{5}\right) - y$

(vi)  $1.3a - 2.6ab + 1.5b$

### Question 2

Classify the following polynomials as monomial, binomials, trinomials, which polynomials do not fit in any of these three categories?

(i)  $x^2 + y^2$

(ii)  $1000 - x$

(iii)  $x + x^2 + x^3 + x^4 + x^5$

(iv)  $8 - y + 5x$

(v)  $2y - 2y^2$

(vi)  $2y - 3y + 4y^3$

(vii)  $5x - 8y + 3xy$

(viii)  $4 - 15z^2$

(ix)  $ab + bc + cd + da + 2ab$

(x)  $Pqr + 2pq + 5pqr$

(xi)  $p^2q + pq^2$

(xii)  $2p + 2q + 1$

### Question 3

Add the following

(i)  $ab - bc + ac, bc - ca + ab, ca - ab - 2bc$

(ii)  $p - q + pq, q - r + qr, r - p + pr, p + q + r$

(iii)  $2p^2q^2 - 3pq + 4, 5 + 7pq - 3p^2q^2, 4p^2q^2 + 10pq$

(iv)  $a^2 + b^2, b^2 + c^2, c^2 + a^2, 2ab + 2bc + 2ac$

Question 4

(a) Subtract  $8a - 7ab + 3b - 20$  from  $20a - 9ab + 5b - 20$

(b) Subtract  $3pq + 5pr + 7pr + 1$  from  $-4pq + 2qr - 2pr + 5pqr + 1$

(c) Subtract  $4p^2q - 4pq - 5pq^2 - 8p + 7q - 18$  from  $18 - 3p - 11q + 5pq - 2pq^2 + 5p^2q$

Question 5

What are the coefficient of each term in the below expression?

$$4p^2q^2 + 4p^2q^2r^2 - r^2 + 5$$

(a) 4,4, -1,5

(b) 4,4, -1,5

(c)  $4, 4r^2, -r^2, 5$

(d) None of these

Question 6

The product of a monomial and trinomial will be

(a) Monomial

(b) Trinomial

(c) Binomial

(d) None of these

Question 7

The exponents of a variable term in the polynomial is a

(a) Integers

(b) Negative integers

(c) Positive integers

(d) Non-negative integers

Question 8

The expression  $pqr + rqp + qpr$  is a

(a) Monomial

- (b) Trinomial
- (c) Binomial
- (d) None of these