Subject: - Mathematics PRACTICE PAPER

**Topic: - Algebraic Expressions** 

CBSE-8<sup>th</sup>

- 1. The perimeter of a  $\Delta$  is  $7p^2 + 5p + 11$  and two of its sides are  $p^2 + 2p 1$  and  $3p^2 6p + 3$ . Find the third side of the  $\Delta$ . Ans.  $3p^2 p + 9$
- 2. Subtract  $7xy(x^2 2xy + 3y^2) 8x(x^2y 4xy + 7xy^2)$  from  $3y(4x^2y 5xy + 8xy^2)$ .

Ans.  $82x^2y^2 + 3xy^3 + x^3y - 15xy^2 - 32x^2y$ 

- 3. If two adjacent sides of a rectangle are  $5x^2 + 25xy + 4y^2$  and  $2x^2 2xy + 3y^2$ . Find its area. Ans.  $10x^4 + 40x^3y + 67xy^3 - 27x^2y^2 + 12y^4$
- 4. Using the identity, solve:  $-986^2 14^2$

Ans. 972000

5. If  $x - \frac{1}{x} = 3$ , Find i)  $x^2 + \frac{1}{x^2}$  ii)  $x^4 + \frac{1}{x^4}$ 

Ans. i) 11 ii) 119

6. Using identity,

Solve:- (4x + 5)(4x + 1)

Ans.  $16x^2 + 24x + 5$ 

- 7. Show that (p q)(p + q) + (q r)(q + r) + (r p)(r + p) = 0
- 8. Divide  $3x^5 + 7x^4 11x^3 + 8x^2 32x + 5$  by  $2 + 3x + x^2$

Ans. Q =  $3x^3 - 2x^2 - 11x + 45$ , R = -145x - 85.

9. If  $x^2 + y^2 = 9$  and xy = 8, then x + y = ?

Ans.  $\pm$  5

- 10. 3a is a factor of 42b. True or False.
- 11. What should be subtracted from  $3x^2y^2 + 2xy^2 5xy + y^2 2x^2$  to get  $2x^2 + 3y^2 2x^2y^2 5xy^2$ ?

  Ans.  $7xy^2 4x^2 2y^2 + 5x^2y^2 5xy$

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