

St. Andrews Scots Sr. Sec. School

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Session:2025-26

Worksheet

Class: VII	Subject: Mathematics	Topic: Algebraic expression	Worksheet 8
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Q1. Which of the following is the numerical coefficient of x^2y^2 ?

- I. 0
- II. 1
- III. x^2
- IV. y^2

Q2. Which of the following is the numerical coefficient of $-5xy$?

- I. 5
- II. $-x$
- III. -5
- IV. $-y$

Q3. pqr is what type of polynomial?

- I. Monomial
- II. Binomial
- III. Trimonial
- IV. None of these

Q4 . The value of $x^2 - 5$ at $x = -1$ is-

- I. -2
- II. -1
- III. -4
- IV. -5

Q5 $a^2 - b^2$ is a product of

- I. $(a+b)(a-b)$
- II. $(a+b)(a+b)$
- III. $(a-b)(a-b)$
- IV. None of these

Q6 Which of the following is the value of $(x + 1/x)^2$?

- I. $x^2 + 1/x^2$
- II. $x^2 - 1/x^2$
- III. $x^2 + 1/x^2 + 2$
- IV. $x^2 + 1/x^2 + 2x$

Q7. Which of the following is obtained by subtracting $x^2 - y^2$ from $y^2 - x^2$?

- I. $-2(x^2 - y^2)$
- II. $-2(x^2 + y^2)$
- III. $2(x^2 + y^2)$
- IV. $2(x^2 - y^2)$

8. What degree does $x^3 - x^2y^2 - 8y^2 + 2$ have?

- I. 2
- II. 3
- III. 4
- IV. 7

9. What is the value of $5x^{25} - 3x^{32} + 2x^{-12}$ at $x=1$?

- I. 0
- II. 2
- III. 4
- IV. None of these

10. What is the product of $(x+a)$ and $(x+b)$?

- I. $x^2 + (a-b)x + ab$
- II. $x^2 + (a+b)x - ab$
- III. $x^2 + (a+b)x - ab$
- IV. $x^2 + (a+b)x + ab$