



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



Sub: Algebra and Geometry

Class: 7

Date: 23.11.20

Duration: 40 min

Worksheet 06

Full Marks: 15

Algebraic Expression

Choose the Correct options:

1. What is the coefficient of x^2 in the expression $ax + b$?
 - (a) a
 - (b) b
 - (c) $a + b$
 - (d) 0 .
2. Which of the following pairs of terms is a pair of like terms?
 - (a) $1, 10$
 - (b) $y, -xy$
 - (c) z^2, Z
 - (d) $Z^2, 8$
3. Which of the following pairs of terms is a pair of like terms?
 - (a) $7xy, 14yx$
 - (b) m^2p, mp^2
 - (c) $6xz, 12x^2z^2$
 - (d) $-13x, -13y$
4. Which of the following pairs of terms is a pair of like terms?
 - (a) $3x, 2xy$
 - (b) $-xy^2, -2xy^2$
 - (c) $-6x^2, 20x^2y$
 - (d) $8x^2, 7y$
5. Which of the following pairs of terms is a pair of like terms?
 - (a) $7p, 8q$
 - (b) $10pq, -7qp$
 - (c) $12q^2p^2, -5p^2$
 - (d) $2405p, 78qp$
6. Which of the following pairs of terms is a pair of unlike terms?
 - (a) $-p^2q^2, 12q^2p^2$
 - (b) $41, 100$
 - (c) $qp^2, 13p^2q$
 - (d) $-4yx^2, -4xy^2$
7. Add $2mn, -4mn, 8mn, -6mn$
 - (a) 0
 - (b) $2mn$
 - (c) $8mn$
 - (d) $10mn$
8. Add $a + b - 1, b - a + 1, 1 - 2b$
 - (a) 1
 - (b) -1
 - (c) 2
 - (d) -2
9. Add $4x^2y, -3x^2y, -7xy^2, 7xy^2$
 - (a) x^2y
 - (b) xy^2

- (c) xy
(d) $-x^2 y$
10. Simplify : $p + (p - q) + q + (q - p)$
(a) p
(b) q
(c) $p + q$
(d) $p - q$
11. Simplify : $z^2 + 11z^2 - 5z - 11z^2 + 5z$
(a) z^2
(b) $-z^2$
(c) $5z$
(d) $-5z$
12. Subtract $-xy$ from xy
(a) xy
(b) $2xy$
(c) $3xy$
(d) $4xy$
13. Subtract y^2 from $-5y^2$
(a) $-6y^2$
(b) $6y^2$
(c) y^2
(d) $-5y^2$
14. What should be added to $x^2 + y^2$ to get $x^2 + y^2 + 2xy$?
(a) xy
(b) $2xy$
(c) $4xy$
(d) $-2xy$
15. What should be subtracted from $x^2 + y^2 - 2xy$ to get $x^2 + y^2$?
(a) $2xy$
(b) $-2xy$
(c) xy
(d) $-xy$