



ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

CLASS 8

SUBJECT :Algebra & GeometryWork sheet9

Marks:15Fundamental concepts & operations

Date:8.2.21

Answer all the following questions(1×15=15)

1. Which of the following is a trinomial?

(a) $3a + 4b + 5$

(b) $2x + 7$

(c) $3x$

(d) $4x + y$

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

(a) 2

(b) 3

(c) 4

(d) 7

3. Simplify: $(xy + yz)^2 - (xy - yz)^2$

(a) $4xy^2$

(b) $4xy^2z$

(c) $4xz$

(d) None of these

4. The number of terms in the expression $2x^2 + 3x + 5$ is

(a) 1

(b) 2

(c) 3

(d) 5

5. '2' is common factor of the expressions

(a) $12a^2b$, $15ab^2$

(b) $5xy$, $10x$

(c) $10x^2$, $-18x^3$, $14x^4$

(d) $33y$, $-22z$

6. One of the example of binomial is

(a) $3xyz$

(b) $3xy+z$

(c) $3x+y+z$

(d) $3+x+y+z$

7. Which of the following is a binomial?

(a) $7 - 3x + 4$

(b) $2x + 7$

(c) $4x + y + 2$

(d) $3x$

8. Which of the following is like term as $3xy^2$?

(a) $7xy$

(b) $7xy^2$

(c) $7x$

(d) $7y^2$

9. Add: $7xy + 5yz - 3zx$, $4yz + 9zx - 4y$, $-3xz + 5x - 2xy$.

(a) $5xy + 3zx + 5x - 4y$

(b) $5xy + 9yz + 2zx + 5x - 4y$

(c) $5xy + 9yz + 3zx + 5x - 4y$

(d) $5xy + 9yz + 3zx + 4y$

10. The volume of rectangular box whose length, breadth and height is $2p, 4q, 8r$ respectively is

- (a) $14pqr$
- (b) $2p+4q+8r$
- (c) $64pqr$
- (d) 64

11. The expression $7xy$ has the factors

- (a) $7, x, y$
- (b) x, y
- (c) $7, x$
- (d) $7, y$

12. Which of the following is a binomial?

- (a) $4x + y + 2$
- (b) $2x + 7$
- (c) $3x + 4y - 6$
- (d) $3x$

13. If $(x+1/x) = 6$, find x^2+1/x^2

- (a) 39
- (b) 32
- (c) 34
- (d) None of these

14. $n(4 + m) = 4n + \underline{\hspace{2cm}}$

- (a) $4m$
- (b) $4n$
- (c) $4mn$
- (d) nm

15. The common factors of the terms $2y, 22xy$ is

- (a) 2

(b) $2y$

(c) y

(d) xy

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