



ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

CLASS 8

SUBJECT :Algebra & GeometryWork sheet9Answer key

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) $4x + y$

► (a) $3a + 4b + 5$

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

(a) 2

(b) 3

(c) 4

(d) 7

► (c) 4

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

(a) $4xy^2$

(b) $4xy^2z$

(c) $4xz$

(d) None of these

► (b) $4xy^2z$

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

(a) 1

(b) 2

(c) 3

(d) 5

► (c) 3

5. '2' is common factor of the expressions

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

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

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

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

► (c) $10x^2$, $-18x^3$, $14x^4$

6. One of the example of binomial is

(a) $3xyz$

(b) $3xy+z$

(c) $3x+y+z$

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

► (b) $3xy+z$

7. Which of the following is a binomial?

(a) $7 - 3x + 4$

(b) $2x + 7$

(c) $4x + y + 2$

(d) $3x$

► (b) $2x + 7$

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

(a) $7xy$

(b) $7xy^2$

(c) $7x$

(d) $7y^2$

► (b) $7xy^2$

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

► (c) $5xy + 9yz + 3zx + 5x - 4y$

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

► (c) $64pqr$

11. The expression $7xy$ has the factors

(a) $7, x, y$

(b) x, y

(c) $7, x$

(d) $7, y$

► (a) $7, x, y$

12. Which of the following is a binomial?

(a) $4x + y + 2$

(b) $2x + 7$

(c) $3x + 4y - 6$

(d) $3x$

► (b) $2x + 7$

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

(a) 39

(b) 32

(c) 34

(d) None of these

► (c) 34

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

(a) $4m$

(b) $4n$

(c) $4mn$

(d) nm

► (d) nm

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

(a) 2

(b) $2y$

(c) y

(d) xy

► (b) $2y$

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