



ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

CLASS 8

SUBJECT :Algebra andGeometryWork sheet24 Answer key

Marks:15Factorisation

Date:17.5.2021

1. Factors of $ax^2y + bxy^2 + cxyz$ is
 (a) $xy(ax + by + cz)$ (b) $xyz(ax + by + c)$ (c) $yz(ax + by + cz)$ (d) none of these
2. Factors of $x^2 + xy + 8x + 8y$ is
 (a) $(x + y)(y + 8)$ (b) $(x + y)(x + 8)$ (c) $(x + y)(8 + y)$ (d) none of these
3. Factors of $15xy - 6x + 5y - 2$ is
 (a) $(5y - 2)(3x + 2)$ (b) $(5y - 2)(3x + 1)$ (c) $(5y - 1)(3x + 2)$ (d) none of these
4. Factors of $ax + bx - ay - by$ is
 (a) $(a - b)(x + y)$ (b) $(a + b)(x + y)$ (c) $(a + b)(x - y)$ (d) none of these
5. Factors of $15pq + 15 + 9q + 25p$ is
 (a) $(5p + 3)(3q + 5)$ (b) $(5p + 3)(q + 5)$ (c) $(p + 3)(3q + 5)$ (d) none of these
6. Factors of $z - 7 + 7xy - xyz$ is
 (a) $(z - 7)(1 - xy)$ (b) $(z - 7)(xy - 1)$ (c) $(7 - z)(1 - xy)$ (d) none of these
7. Factors of $x^2 + 8x + 16$ is
 (a) $(x + 8)(x + 2)$ (b) $(x + 4)(x + 2)$ (c) $(x + 4)(x + 4)$ (d) none of these
8. Factors of $4y^2 - 12y + 9$ is
 (a) $(2y - 3)(2y - 6)$ (b) $(2y - 3)(2y - 3)$ (c) $(4y - 3)(y - 3)$ (d) none of these
9. Factors of $49p^2 - 36$ is
 (a) $(7p - 9)(7p + 4)$ (b) $(7p + 4)(7p - 9)$ (c) $(7p - 6)(7p + 6)$ (d) none of these
10. Factors of $a^2 - 2ab + b^2 - c^2$ is
 (a) $(a - b - c)(a - b + c)$ (b) $(a + b - c)(a + b + c)$ (c) $(a - b + c)(a - b + c)$ (d) none of these
11. Factors of $m^4 - 256$ is
 (a) $(m^2 - 16)(m^2 - 16)$ (b) $(m^2 + 16)(m^2 + 16)$ (c) $(m^2 + 16)(m^2 - 16)$ (d) none of these
12. Factors of $x^2 + 5x + 6$ is
 (a) $(x + 3)(x + 2)$ (b) $(x + 4)(x + 2)$ (c) $(x + 6)(x + 1)$ (d) none of these
13. Factors of $x^2 - 25$ is
 (a) $(x - 1)(x - 25)$ (b) $(x - 1)(x + 25)$ (c) $(x - 5)(x - 5)$ (d) $(x - 5)(x + 5)$
14. Factors of $36 - 9x^2$ will be
 (a) $(6 + 3x)(6 - 3x)$ (b) $(3x - 6)(6 - 3x)$ (c) $(3x + 6)(3x - 6)$ (d) $(12x - 3x)(3 + 3x)$
15. Square of $\left(x - \frac{1}{x}\right)$ will be
 (a) $x^2 - 2 - \frac{1}{x^2}$ (b) $x^2 - 2 + \frac{1}{x^2}$ (c) $x^2 - 4 - \frac{1}{x^2}$ (d) $x^2 - 2 + \frac{1}{x}$

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

1a)

2b)

3b)

4c)

5a)

6a)

7c)

8b)

9c)

10a)

11d)

12a)

13d)

14a)

15b)

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