



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



CLASS 8

SUBJECT :Algebra& GeometryWork sheet22 Answer key

Marks:15Factorisation

Date:11.5.21

1. Find the incorrect mathematical statement.

(a) $4(x - 5) = 4x - 20$	(b) $3x + 2x = 5x^2$
(c) $x(3x + 2) = 3x^2 + 2x$	(d) $2x + 3x = 5x$
2. Factors of $p^2 + 6p + 8$ are

(a) $(p + 2)(p - 4)$	(b) $(p - 2)(p - 4)$
(c) $(p + 2)(p + 4)$	(d) $(p - 2)(p + 4)$
3. Factors of $a^2 + 8a + 16$ are:

(a) $(a + 4)(a - 4)$	(b) $(a + 4)(a + 4)$
(c) $(a + 4)(4 - a)$	(d) $(a - 4)(a - 4)$
4. Factors of $2x + 4$ is

(a) $2(x - 4)$	(b) $2(x + 4)$	(c) $2(x - 2)$	(d) $2(x + 2)$
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5. Factors of $5xy + 10x$ is

(a) $5x(y + 2)$	(b) $5y(x + 2)$	(c) $5x(y - 2)$	(d) none of these
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6. Factors of $12a^2b + 15ab^2$ is

(a) $3ab(4a + 5b)$	(b) $3ab(4a + 15b)$	(c) $ab(12a + 15b)$	(d) none of these
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7. Factors of $10x^2 - 18x^3 + 14x^4$ is

(a) $2x^2(7x^2 - 9x + 5)$	(b) $x^2(14x^2 - 18x + 10)$	(c) $2x(7x^3 - 9x^2 + 5x)$	(d) none of these
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8. Factors of $12x + 36$ is

(a) $2(6x + 18)$	(b) $4(3x + 9)$	(c) $12(x + 3)$	(d) none of these
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9. Factors of $22y - 33z$ is

(a) $22y - 33z$	(b) $11(y - 3z)$	(c) $11(y - z)$	(d) none of these
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10. Factors of $14pq + 35pqr$ is

(a) $pq(14 + 35r)$	(b) $7pq(2 + 5r)$	(c) $7pq(14 + 5r)$	(d) none of these
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11. Factors of $2xy + 2y + 3x + 3$ is

(a) $(x + 1)(2y + 1)$	(b) $(x + 1)(2y + 3)$	(c) $(x + 3)(2y + 1)$	(d) none of these
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12. Factors of $6xy - 4y + 6 - 9x$ is

(a) $(3x - 2)(2y + 3)$	(b) $(3x - 2)(2y - 3)$	(c) $(3x + 2)(2y - 3)$	(d) none of these
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13. Factors of $7a^2 + 14a$ is

(a) $a(7a + 14)$	(b) $7a(a + 14)$	(c) $7a(a + 2)$	(d) none of these
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14. Factors of $5x^2y - 15xy^2$ is

(a) $xy(5x - 15y)$	(b) $5xy(x - 3y)$	(c) $5xy(x - 5y)$	(d) none of these
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Answer all the following questions(1×15=15)

15. Factors of $x^2 + 2x + 1$ is

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| (a) $(x+1)(x+1)$ | (b) $(x-1)^2$ | (c) $x+2$ | (d) none of these |
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Answers

1.b

2.c

3.b

4.d

5.a

6.a

7.a

8.c

9.d

10.b

11.b

12.b

13.c

14.b

15.a