

CLASS VIII

13.11.17 - 17911-1

WORK SHEET 7 - (2)

CHAPTER - 9 ALGEBRAIC EXPRESSION AND IDENTITIES

- The value of $(a + b)^2 + (a - b)^2$ is
(a) $2a + 2b$ (b) $2a - 2b$
(c) $2a^2 + 2b^2$ (d) $2a^2 - 2b^2$
- Product of $6a^2 - 7b + 5ab$ and $2ab$ is
(a) $12a^3b - 14ab^2 + 10ab$
(b) $12a^3b - 14ab^2 + 10a^2b^2$
(c) $6a^2 - 7b + 7ab$
(d) $12a^2b - 7ab^2 + 10ab$
- Square of $3x - 4y$ is
(a) $9x^2 - 16y^2$
(b) $6x^2 - 8y^2$
(c) $9x^2 + 16y^2 + 24xy$
(d) $9x^2 + 16y^2 - 24xy$
- If $ab = 6$ and $a + b = 5$ then the value of $(a^2 + b^2)$ is
(a) 11
(b) 17
(c) 13
(d) 16
- The product of $(m^3 + 2)(m^3 - 2)$ is
(a) $2m^3 - 4$ (b) $m^9 - 4$ (c) $m^6 - 4$ (d) $m^6 + 4$
- The value of $(a + b)^2 - (a - b)^2$ is
(a) $4ab$ (b) $-4ab$ (c) $2a^2$ (d) $2b^2$
- The product of a monomial and a binomial is
(a) Monomial (b) Trinomial (c) Binomial (d) None of these
- Area of Rectangle with length = $4ab$ and breadth = $6b^2$ is
(a) $10ab^3$ (b) $24ab^2$ (c) $24a^2b$ (d) $24ab^3$
- The volume of a cuboid with length = $2ab$, breadth = $2bc$ and height = $2ac$ is
(a) $8abc$ (b) $8abc^2$ (c) $8a^2b^2c^2$ (d) $8a^2bc$

10 The square of $(3x - 4y)$ is

- a) $9x^2 - 16y^2$ b) $3x^2 - 4y^2$ c) $9x^2 + 16y^2 + 24xy$
d) $9x^2 + 16y^2 - 24xy$

11 If $3x - 7y = 10$ and $xy = -1$, then the value of $9x^2 + 49y^2$ is

- a) 58 b) 142 c) 104 d) -104

12 If $x + \frac{1}{x} = 5$, then the value of $x^4 + \frac{1}{x^4}$ is

- a) 144 b) 400 c) 236 d) 527

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CHAPTER 9 - ALGEBRAIC EXPRESSIONS AND IDENTITIES

1. Multiply $x^2y^2z^2$ by $(xy - yz + zx)$.
2. Subtract $b(b^2 + b - 7) + 5$ from $3b^2 - 8$ and find the value of expression obtained for $b = -3$.
3. Find the area of a rectangular field whose dimensions are $3x^2y + y^2$ and $\frac{5}{8}x^2$.
4. Find the product : $\frac{3}{8}xyz \times \left(-\frac{4}{7}yz\right) \times \left(-\frac{7}{11}xz\right)$
5. Find the product : $(x + y)(x^2 - xy + y^2)$
6. Find the product $(3a + b)(2a + b)(a + b)$
7. Find the value of $(4x - 5)(4x + 1) - (x + 5)(4x - 1)$