



Study Point Coaching Classes

Near Bandhan Restaurant, Gonda Road, Bahraich – 271801

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MATHEMATICS-DPP-CLASS-IX

(Expansions)

- (1) Simplify: $(x - 2)(x + 2)(x^2 + 4)(x^4 + 16)$
- (2) Evaluate 1002×998 by using a special product.
- (3) If $a + 2b + 3c = 0$, Prove that $a^3 + 8b^3 + 27c^3 = 18abc$
- (4) Find the square of:
 - i. $2a + b$
 - ii. $3a + 7b$
 - iii. $3a/2b - 2b$
- (5) Use identities to evaluate:
 - i. $(101)^2$
 - ii. $(502)^2$
 - iii. $(97)^2$
 - iv. $(998)^2$
- (6) Without actually calculating the cubes, find the values of:
 - i. $(27)^3 + (-17)^3 + (-10)^3$
 - ii. $(-28)^3 + (15)^3 + (13)^3$
- (7) $32a^2x^3 - 8b^2x^3 - 4a^2y^3 + b^2y^3$
- (8) Find the coefficient of x^2 and x in the product of $(x - 3)(x + 7)(x - 4)$
- (9) If $a^2 + 4a + x = (a + 2)^2$, Find the value of x .