

REE ACA



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Class - 9th

Chapter-3

Subject Maths Algebraic Identities

Worksheet-07

Evaluate the following using suitable identities:

$$1.(99)^3$$

$$2.(102)^3$$

$$3.(998)^3$$

Verify:

4.
$$x^3 + y^3 = (x + y) (x^2 - xy + y^2)$$

5.
$$x^3 - y^3 = (x - y)(x^2 + xy + y^2)$$

Factorise each of the following:

$$6.27y3 + 125z3$$

8. Verify that
$$x^3 + y^3 + z^3 - 3xyz = \frac{1}{2}(x + y + z)[(x - y)^2 + (y - z)^2 + (z - x)^2]$$