

Class – 9th

Chapter-2

Subject Maths

Worksheet-06

Polynomial

Find the following products using appropriate identities:

1. $(x + 4)(x + 10)$
2. $(x + 8)(x - 10)$
3. $(y^2 + \frac{3}{2})(y^2 - \frac{3}{2})$
4. 103×107

Factorise the following using appropriate identities:

5. $49a^2 + 70ab + 25b^2$
6. $\frac{25}{4}x^2 - \frac{y^2}{9}$

Expand each of the following, using suitable identities:

7. $(x + 2y + 4z)^2$
8. $(2x - y + z)^2$

Factorise:

9. $2x^2 + y^2 + 8z^2 - 2\sqrt{2}xy + 4\sqrt{2}yz - 8xz$

Write the following cubes in expanded form:

10. $(2x + 1)^3$
11. $\left[\frac{2y}{3} - x\right]^3$
12. $(102)^3$