

Class – 9th

Chapter-2

Subject Maths

Worksheet-05

Polynomial

Find the following products using appropriate identities:

1. $(x + 3)(x + 3)$
2. $(x - 3)(x + 5)$
3. $(3 - 2x)(3 + 2x)$
4. 104×96

Factorise the following using appropriate identities:

5. $9x^2 + 6xy + y^2$
6. $4y^2 - 4y + 1$

Expand each of the following, using suitable identities:

7. $(3a - 7b - c)^2$
8. $(-2x + 5y - 3z)^2$

Factorise:

9. $4x^2 + 9y^2 + 16z^2 + 12xy - 24yz - 16xz$

Write the following cubes in expanded form:

10. $(2a - 3b)^3$
11. $\left[\frac{3x}{2} + 1\right]^3$
12. $(998)^3$