

PRABHU DAYAL PUBLIC SCHOOL
Mathematics (2025-26)
Class - IX
Assignment – 3

1. Find out the factors of $x^2 + 3\sqrt{2}x + 4$
2. Find the value of the polynomial $12x^2 - 7x + 1$, when $x = \frac{1}{4}$.
3. Verify that whether -2 and 3 zeroes of the polynomial $x^2 - x - 6$.
4. Expand $(2x - 3y + 7z)^2$
5. If $a + b + c = 9$ and $ab + bc + ca = 26$, find $a^2 + b^2 + c^2$.
6. Show that a diagonal of a parallelogram divides it into two congruent triangles.
7. Prove that the diagonals of a square are equal and perpendicular to each other.
8. Find out the class marks of the class 92-120.
9. Find out the sum of class marks of the classes 10-14 and 20-30.
10. The mid value of a class interval is 42. If the class size is 10, then find out the upper and lower limit.