CHAPTER-4 | QUADRATIC EQUATIONS

QUIZ PART-02

1. The equation $(x+1)^2=2(x-3)$ is:
   A. Quadratic
   B. Linear
   C. Polynomial
   D. Not an equation (A)

Explanation : Expanding gives a quadratic equation.

2. The equation $x^2-2x=-2(3-x)$ is:
   A. Quadratic
   B. Linear
   C. Not an equation
   D. Polynomial (A)

Explanation : Simplifies to a quadratic equation.

3. The equation $(x-2)(x+1)=(x-1)(x+3)$ is:
   A. Quadratic
   B. Linear
   C. Not an equation
   D. Polynomial (A)

Explanation : Expanding gives a quadratic equation.

4. The equation (x-3)(2x+1)=x(x+5) is:
   A. Quadratic
   B. Linear
   C. Not an equation
   D. Polynomial (A)

Explanation : Simplifies to a quadratic equation.

5. The equation $(2x-1)(x-3)=(x+5)(x-1)$ is:
   A. Quadratic
   B. Linear
   C. Not an equation
   D. Polynomial (A)

Explanation : Expanding gives a quadratic equation.

6. The equation $x^2+3x+1=(x-2)^2$ is:
   A. Quadratic
   B. Linear
   C. Not an equation
   D. Polynomial (A)

Explanation : After simplifying, it's quadratic.

7. The equation $(x+2)^3=2x(x^2-1)$ is:
   A. Quadratic
   B. Linear
   C. Polynomial
   D. None of these (C)

Explanation : It's a cubic equation.

8. The equation $x^3-4x^2-x+1=(x-2)^3$ is:
   A. Quadratic
   B. Linear
   C. Cubic
   D. Polynomial (C)

Explanation : It's a cubic equation.

9. The product of two consecutive integers is 306. The integers are:
   A. 17 and 18
   B. 15 and 16
   C. 14 and 15
   D. 16 and 17 (A)

Explanation : Solving gives 17 and 18.

10. A train travels 480 km at a uniform speed. If the speed were 8 km/h less, it would take 3 more hours. The speed of the train is:
    A. 60 km/h
    B. 50 km/h
    C. 55 km/h
    D. 65 km/h (A)

Explanation : Solving gives 60 km/h.