

Chapter 2 Class 9

Polynomials

- MCQ Worksheet 2

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Chapter: [Chapter 2 Class 9 Maths – Polynomials](#)

Name: _____

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1. The polynomial $p(x) = 5$ represents the constant speed of a car in m/s. What is the zero of this polynomial?

- a) 5
- b) 0
- c) 1
- d) It has no zero.

2. A polynomial's graph crosses the x -axis at $x = -2$, $x = 1$, and $x = 3$. What can be inferred about its factors?

- a) $(x - 2)$, $(x + 1)$, and $(x + 3)$ are its factors.
- b) $(x + 2)$, $(x - 1)$, and $(x - 3)$ are its factors.
- c) The polynomial is of degree 2 .

d) The polynomial has no real factors.

3. The area of a larger square is x^2 and the area of a smaller square cut out from it is y^2 .

The area of the remaining shape is $x^2 - y^2$. This demonstrates the identity:

a) $(x + y)^2 = x^2 + 2xy + y^2$

b) $(x - y)^2 = x^2 - 2xy + y^2$

c) $(x + y)(x - y) = x^2 - y^2$

d) $(x + y + z)^2 = x^2 + y^2 + z^2 + 2xy + 2yz + 2zx$

4. A polynomial expression is defined as having variables with non-negative integer exponents. Which of these real-world models is NOT a polynomial?

a) Area of a circle: $A(r) = \pi r^2$

b) Simple Interest: $I(t) = 500 \times 0.05 \times t$

c) Gravitational Force: $F(r) = G \frac{m_1 m_2}{r^2}$

d) Volume of a cube: $V(s) = s^3$

5. If $(x - 2)$ is a factor of the polynomial representing the volume of a cube, $V(x) = x^3 + kx - 10$, what does this imply?

a) The volume is 0 when the side length is 2 .

b) The value of k must be 1 .

c) The volume is 2 when the side length is 0 .

d) The side length of the cube can never be 2 .

6. The expression $(100 - 1)^3$ can be used to mentally calculate 99^3 . This is an application of which identity?

a) $(x + y)^3$

b) $(x - y)^3$

c) $x^3 - y^3$

d) $x^3 + y^3$

7. A rectangular park has an area of $A(x) = 12x^2 - 7x + 1$. If one of its dimensions is $(3x - 1)$, what is the other dimension?

a) $4x - 1$

b) $4x + 1$

c) $12x - 1$

d) $x - 1$

8. The polynomial $p(x) = 0$ is called the zero polynomial. If this represents the displacement of a particle, what does it mean?

a) The particle is moving at a constant speed.

b) The particle is accelerating.

c) The particle has not moved from its origin.

d) The particle moves infinitely fast.

9. The surface area of a cube is given by $A(x) = 6x^2$. If we consider this as a polynomial in x , what is its classification?

- a) Linear Monomial
- b) Quadratic Monomial
- c) Cubic Binomial
- d) Constant Polynomial

10. The polynomial $p(t) = t^2 + 2t + 1$ represents the area of a square. Which of the following graphs correctly represents the relationship between the side length $(t + 1)$ and the area?

- a) A straight line passing through the origin.
- b) A parabola opening upwards.
- c) A horizontal line.
- d) A parabola opening downwards.

Important links

- Answer of this worksheet - <https://www.teachoo.com/25597/5364/MCQ---Worksheet-2/category/Teachoo-Questions---MCQs/>
- Full Chapter with Explanation, Activity, Worksheets and more – <https://www.teachoo.com/subjects/cbse-maths/class-9th/ch2-9th-polynomials/>
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