

# POLYNOMIALS

A Polynomial can be envisioned as mathematical sentences, each consisting of a variable multiplied by a coefficient. The basic form, a monomial, comprises a single part. As polynomials become more complex, they evolve into binomials, trinomials, or even higher-order polynomials.

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### Q1: Which term in a polynomial represents the coefficient?

A: Exponent

- **B: Variable**
- C: Constant
- D: Numeric coefficient

#### Q2: What is the root of the polynomial 3x - 6?

- A: 2
- B: 3
- C: 6
- D: -2

### Q3: According to the definition of a polynomial, what is the degree of a constant polynomial?

A: 0

B: 1

C: 2

D: 3

### Q4: In the polynomial $5x^2 - 2x + 7$ , what is the leading coefficient?

A: 5

- B: -2
- C: 7
- D: 2

### Q5: For the polynomial expression $4x^3 + 2x^2 - 6x + 1$ , how many terms are there?

A: 3

B: 4

- C: 2
- D: 1



### Q6: If a polynomial has two equal roots, what can be said about the discriminant of its associated quadratic equation?

A: Positive

**B: Negative** 

C: Zero

D: Imaginary

Q7: What is the constant term in the polynomial  $2x^4 + 3x^3 - 7x^2 + 5$ ?

A: 2

B: -7

C: 5

D: 3

Q8: For the polynomial  $2x^2 - 5x + 1$ , what are the solutions to the corresponding quadratic equation?

A: 1, 2 B: -1, -2 C: 1, -0.5 D: -1, 0.5

Q9: What is the sum of the coefficients in the polynomial  $4x^3 - 2x^2 + 7x - 1$ ?

A: 8 B: 18 C: 10 D: 12

## Q10: In the polynomial $3x^2 - 2x + k$ , if k is a constant and the polynomial is a perfect square trinomial, what is the value of k?

A: 1

B: 4

C: 9

D: 2

#### https://www.edulyte.com/maths/polynomials



#### Answers

Q1: C - Constant

**Q2:** C - 6

**Q3:** A - 0

**Q4:** A - 5

**Q5:** B - 4

Q6: C - Zero

**Q7:** C - 5

**Q8:** C - 1, -0.5

**Q9:** D - 12

**Q10:** A - 1