

Polynomials Quiz PDF

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What is the degree of the polynomial $2x^3 + 5x^2 - x + 8$?

- 1
- 2
- 3
- 4

Which of the following are special factoring formulas? (Select all that apply)

- Difference of squares
- Sum of cubes
- Perfect square trinomial
- Quadratic formula

Which of the following are examples of cubic polynomials? (Select all that apply)

- $x^3 + 2x^2 + x + 1$
- $2x^2 + 3x + 4$
- $4x^3 - x$
- $x^4 - x^3 + x$

What is the sum of the polynomials $x^2 + 3x + 2$ and $2x^2 - x + 4$?

- $3x^2 + 2x + 6$
- $3x^2 + 4x + 6$
- $x^2 + 2x + 6$
- $3x^2 + 2x + 4$

Which of the following is a factor of $x^2 - 4x + 4$?

- $x - 1$
- $x - 2$

- $x - 3$
- $x - 4$

What is the remainder when $x^3 - 2x^2 + 3$ is divided by $x - 1$?

- 0
- 1
- 2
- 3

Which polynomial represents a quadratic expression?

- $x^3 + 2x^2 + x$
- $3x^2 + 4x + 5$
- $5x + 1$
- $x^4 - x^2 + 1$

What are the roots of the polynomial $x^2 - 5x + 6$? (Select all that apply)

- 1
- 2
- 3
- 4

What is the leading coefficient of the polynomial $5x^4 - 2x^3 + x - 6$?

- 5
- 2
- 1
- 6

Which of the following are considered polynomials? (Select all that apply)

- $3x^2 + 2x + 1$
- $x^{-1} + 4$
- $5x^3 - 2x + 7$
- $\sqrt{x} + 1$

Which of the following expressions can be factored using the difference of squares formula? (Select all that apply)

- $x^2 - 9$
- $x^2 + 4$
- $4x^2 - 16$
- $x^2 - 2x + 1$

Which of the following is a binomial?

- $5x^2 + 3x + 1$
- $x^2 - 4$
- x^3
- $2x^2 + 4x + 6$

Which of the following is a monomial?

- $4x + 2$
- $7x^2$
- $x^2 - 3x + 1$
- $x^3 + x$

Which of the following operations can be performed on polynomials? (Select all that apply)

- Addition
- Subtraction
- Multiplication
- Division