

Polynomials Quiz Answer Key PDF

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What is the	e dearee c	of the pol	vnomial 2x	$(^3 + 5)$	(^2 - x + 8?

- A. 1
- B. 2
- C. 3 ✓
- D. 4

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

- A. Difference of squares ✓
- B. Sum of cubes ✓
- C. Perfect square trinomial ✓
- D. Quadratic formula

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

- A. $x^3 + 2x^2 + x + 1$
- B. $2x^2 + 3x + 4$
- C. 4x^3 x ✓
- D. $x^4 x^3 + x$

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

- A. $3x^2 + 2x + 6$
- B. $3x^2 + 4x + 6$
- C. $x^2 + 2x + 6$
- D. $3x^2 + 2x + 4$

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

A. x - 1

B. x - 2 ✓

C. x - 3

D. x - 4

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

A. 0

B. 1 ✓

C. 2

D. 3

Which polynomial represents a quadratic expression?

A. $x^3 + 2x^2 + x$

B. $3x^2 + 4x + 5$

C. 5x + 1

D. $x^4 - x^2 + 1$

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

A. 1

B. 2 ✓

C. 3 ✓

D. 4

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

A. 5 ✓

B. -2

C. 1

D. -6

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

A. $3x^2 + 2x + 1$

B. $x^{-1} + 4$



C.
$$5x^3 - 2x + 7$$

D. $\sqrt{x} + 1$

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

A. x^2 - 9 ✓

B. $x^2 + 4$

C. 4x^2 - 16 ✓

D. $x^2 - 2x + 1$

Which of the following is a binomial?

A. $5x^2 + 3x + 1$

B. x^2 - 4 ✓

C. x^3

D. $2x^2 + 4x + 6$

Which of the following is a monomial?

A. 4x + 2

B. 7x^2 ✓

C. $x^2 - 3x + 1$

D. $x^3 + x$

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

A. Addition ✓

B. Subtraction ✓

C. Multiplication ✓

D. Division ✓