



Take Test: Adding, Subtracting, and Multiplying Polynomials Quiz

Description

Instructions

Multiple Attempts Not allowed. This Test can only be taken once.

Force Completion This Test can be saved and resumed later.

[Save All Answers](#)[Save and Submit](#)

Question 1

3 points

[Save Answer](#)

Which statement best describes the polynomial $4x^3 + 3x^2 - 1$?

- ☐ second degree polynomial with two terms
- ☐ third degree polynomial with two terms
- ☐ third degree polynomial with three terms
- ☐ fourth degree polynomial with three terms

Question 2

4 points

[Save Answer](#)

Which of the following is true about the polynomial $3x^4 - 1$? Select all that apply.

- ☐ The polynomial has two terms.
- ☐ The polynomial is a degree three polynomial.
- ☐ The polynomial has a leading coefficient of 4.
- ☐ The polynomial is written in standard form.

Question 3

3 points

[Save Answer](#)

Simplify $(3x^2 - x + 7) + (6x^2 - 3)$.

- ☐ $-3x^2 - x + 4$
- ☐ $9x^2 - 4x + 7$
- ☐ $9x^2 - 4x + 4$
- ☐ $9x^2 - x + 4$

Question 4

3 points

Save Answer

Simplify $(3x^2 - 4x + 1) - (5x^2 - 2x + 1)$.

- ☐ $-2x^2 - 2x$
- ☐ $-2x^2 - 6x + 2$
- ☐ $-2x^2 - 2x + 2$
- ☐ $8x^2 - 6x + 2$

Question 5

3 points

Save Answer

The expression $x^3(2x - 6x^2)$ can be rewritten as which of the following?

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

Question Completion Status:

3 points

Save Answer

Which of the following is equivalent to $(3x + 5)(6x - 1)$? Select all that apply

- ☐ $18x^2 + 27x - 5$
- ☐ $18x^2 + 33x - 5$
- ☐ $3x(6x - 1) + 5(6x - 1)$
- ☐ $3x(6x - 1) - 5(6x - 1)$

Question 7

3 points

Save Answer

When applying the FOIL method to multiply $(6x - 1)(6x + 2)$, which of the following is the term that correctly represents the product of the "first" terms?

- ☐ $6x$
- ☐ $6x^2$
- ☐ $12x$
- ☐ $36x^2$

Question 8

3 points

[Save Answer](#)

Which of the following is the product of $4x + 5$ and $5x - 6$ from the FOIL method?

- ☐ $20x^2 + x - 30$
- ☐ $20x^2 + x + 30$
- ☐ $20x^2 - x - 30$
- ☐ $20x^2 - x + 30$

Save and Submit

Click Save and Submit to save and submit. Click Save All Answers to save all answers.

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