

Alg 2 2.3 Homework

Question 1.

Drag and drop each term into the correct box to show the polynomial $-26x^7 + x^9 - 3x^3 + 13 + 5x^2$ in standard form.

The polynomial in standard form is + + + + .

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Identify the degree and leading coefficient.

The degree of the polynomial is and the leading coefficient is .

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Question 2.

Add the polynomials.

$$(65x^8 + 22x^2 - 6) + (16x + 4x^8 - 44x^2 + 3)$$

The sum of the polynomials is .

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Question 3.

Subtract the polynomials.

$$(-5x + 22x^5 + 11) - (2 - 5x^3 + x)$$

The difference of the polynomials is .

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Question 4.

Subtract the polynomials.

$$(10x^2 - x + 1) - (8x + 6) + (9x - 10)$$

The difference of the polynomials is .

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Question 5.

Perform the following polynomial multiplication.

$$(7x - 6)(2x^2 + 3x - 1) = \boxed{}$$
