Simplifying Polynomial Expressions

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Simplify each polynomial.

1) $6x + 4x^2 + x^3 + 7x - 7 =$

2) $13x^3 + 7x^2 - 4x^3 + 17x^2 - 20x^3 + 11x^2 =$

3) $11x + 3x^2 - x^3 + 5x =$

4) $19x + 6x^2 - x^3 + 3x =$

5) $(20x^3 + 7x^2 - 5x^3) + (25x^2 - 27x^3 + 12x^2) =$

6) $(8x^3 + 6x^2 - 4x^3) + (12x^2 - 14x^3 + 10x^2) =$

7) $5x^3 + 6x^2 - 3x^3 + 8x^2 - 11x^3 + 9x^2 =$

8) $(10x^3 + 5x^2 - 5x^3) + (15x^2 - 15x^3 + 10x^2) =$

9) $(11x^3 + 6x^2 - 4x^3) + (15x^2 - 17x^3 + 10x^2) =$

10) $(9x^3 + 2x^2 - 7x^3) + (16x^2 - 11x^3 + 9x^2) =$

11) $8x + 2x^2 - x^3 + 5x =$

Answers of Simplifying Polynomial Expressions

Simplify each polynomial.

1) $6x + 4x^2 + x^3 + 7x - 7 = x^3 + 4x^2 + 13x - 7$

2) $13x^3 + 7x^2 - 4x^3 + 17x^2 - 20x^3 + 11x^2 = -11x^3 + 35x^2$

3) $11x + 3x^2 - x^3 + 5x = -x^3 + 3x^2 + 16x$

4) $19x + 6x^2 - x^3 + 3x = -x^3 + 6x^2 + 22x$

5) $(20x^3 + 7x^2 - 5x^3) + (25x^2 - 27x^3 + 12x^2) = -12x^3 + 44x^2$

6) $(8x^3 + 6x^2 - 4x^3) + (12x^2 - 14x^3 + 10x^2) = -10x^3 + 28x^2$

7) $5x^3 + 6x^2 - 3x^3 + 8x^2 - 11x^3 + 9x^2 = -9x^3 + 23x^2$

8) $(10x^3 + 5x^2 - 5x^3) + (15x^2 - 15x^3 + 10x^2) = -10x^3 + 30x^2$

9) $(11x^3 + 6x^2 - 4x^3) + (15x^2 - 17x^3 + 10x^2) = -10x^3 + 31x^2$

10) $(9x^3 + 2x^2 - 7x^3) + (16x^2 - 11x^3 + 9x^2) = -9x^3 + 27x^2$

11) $8x + 2x^2 - x^3 + 5x = -x^3 + 2x^2 + 13x$