Simplifying Polynomials

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Simplify each expression.

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

2) $18 + 3(-2x^3 - 4x^2) - 2 + x =$

3) $13x(x + 2x^2 - 5x^4) =$

4) $20 + 5x^3 - 3x^2 - 2 =$

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

6) $(-x + 21x^2)x =$

7) $(x - 12x^2)(x + 3) =$

8) $(x - 9x^2)(x + 3) =$

9) $2x(x + 7x^2 - 3x^4) =$

10) $11 + 3(-3x^3 - 2x^2) - 4 + x =$

11) $(-x + 11x^2)x =$

12) $19 + 3(-2x^3 - 2x^2) - 2 + x =$

13) $15x(x + 2x^2 - 7x^4) =$

Answers of Simplifying Polynomials

Simplify each expression.

1) $3x(x + 5x^2 - 2x^4) = -6x^4 + 15x^3 + 3x^2$

2) $18 + 3(-2x^3 - 4x^2) - 2 + x = -6x^3 - 12x^2 + x + 16$

3) $13x(x + 2x^2 - 5x^4) = -65x^4 + 26x^3 + 13x^2$

4) $20 + 5x^3 - 3x^2 - 2 = 5x^3 - 3x^2 + 18$

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

6) $(-x + 21x^2)x = 21x^3 - x^2$

7) $(x - 12x^2)(x + 3) = -12x^3 - 35x^2 + 3x$

8) $(x - 9x^2)(x + 3) = -9x^3 - 26x^2 + 3x$

9) $2x(x + 7x^2 - 3x^4) = -6x^4 + 14x^3 + 2x^2$

10) $11 + 3(-3x^3 - 2x^2) - 4 + x = -9x^3 - 6x^2 + x + 7$

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

12) $19 + 3(-2x^3 - 2x^2) - 2 + x = -6x^3 - 6x^2 + x + 17$

13) $15x(x + 2x^2 - 7x^4) = -105x^4 + 30x^3 + 15x^2$