Simplifying Variable Expressions

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Simplify each expression.

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

2) $21x + 7x^2 =$

3) $16x + 2x^2 =$

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

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

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

7) $8x^2(2x) =$

8) $5x + 4x^2 =$

9) $16x^2(6x + x) =$

10) $6x + 4x^2 =$

11) $8x^2(6x + x) - x^3 =$

12) $12x + 6x^2 =$

13) $17x^2(3x + x) =$

14) $12x^2(2x + x) =$

15) $14x^2(6x + x) - x^3 =$

16) $10x + 7x^2 =$

17) $18x^2(5x) =$

18) $2x^2(4x) =$

19) $12x^2(5x + x) + x^3 =$

20) $15x^2(4x + x) =$

21) $15x^2(2x + x) - x^3 =$

22) $14x^2(4x + x) =$

Answers of Simplifying Variable Expressions

Simplify each expression.

1) $5x^2(5x + x) - x^3 = 29x^3$

2) $21x + 7x^2 = x(21 + 7x)$

3) $16x + 2x^2 = x(16 + 2x)$

4) $3x^2(5x + x) + x^3 = 19x^3$

5) $11x^2(5x + x) + x^3 = 67x^3$

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

7) $8x^2(2x) = 16x^3$

8) $5x + 4x^2 = x(5 + 4x)$

9) $16x^2(6x + x) = 112x^3$

10) $6x + 4x^2 = x(6 + 4x)$

11) $8x^2(6x + x) - x^3 = 55x^3$

12) $12x + 6x^2 = x(12 + 6x)$

13) $17x^2(3x + x) = 68x^3$

14) $12x^2(2x + x) = 36x^3$

15) $14x^2(6x + x) - x^3 = 97x^3$

16) $10x + 7x^2 = x(10 + 7x)$

17) $18x^2(5x) = 90x^3$

18) $2x^2(4x) = 8x^3$

19) $12x^2(5x + x) + x^3 = 73x^3$

20) $15x^2(4x + x) = 75x^3$

21) $15x^2(2x + x) - x^3 = 44x^3$

22) $14x^2(4x + x) = 70x^3$