Simplifying Variable Expressions

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Simplify each expression.

1) $12x^2(5x + x) + x^3 =$

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

3) $20x^2(5x + x) + x^3 =$

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

5) $20x^2(6x) =$

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

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

8) $20x^2(4x + x) - x^3 =$

9) $8x + 6x^2 =$

10) $9x^2(3x + x) =$

11) $4x^2(4x) =$

12) $19x^2(7x + x) + x^3 =$

13) $2x^2(5x + x) =$

14) $15x^2(4x + x) =$

15) $21x^2(4x + x) - x^3 =$

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

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

18) $13x^2(3x + x) - x^3 =$

19) $3x^2(3x) =$

20) $11x^2(5x + x) + x^3 =$

21) $7x^2(6x + x) + x^3 =$

22) $17x + 2x^2 =$

23) $16x^2(7x) =$

24) $11x^2(3x + x) =$

25) $14x^2(7x) =$

26) $2x^2(4x) =$

27) $9x^2(2x) =$

28) $14x + 3x^2 =$

29) $18x^2(3x + x) =$

30) $4x^2(4x + x) =$

Answers of Simplifying Variable Expressions

Simplify each expression.

1) $12x^2(5x + x) + x^3 = 73x^3$

2) $9x^2(7x + x) + x^3 = 73x^3$

3) $20x^2(5x + x) + x^3 = 121x^3$

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

5) $20x^2(6x) = 120x^3$

6) $16x^2(2x + x) - x^3 = 47x^3$

7) $12x^2(2x + x) = 36x^3$

8) $20x^2(4x + x) - x^3 = 99x^3$

9) $8x + 6x^2 = x(8 + 6x)$

10) $9x^2(3x + x) = 36x^3$

11) $4x^2(4x) = 16x^3$

12) $19x^2(7x + x) + x^3 = 153x^3$

13) $2x^2(5x + x) = 12x^3$

14) $15x^2(4x + x) = 75x^3$

15) $21x^2(4x + x) - x^3 = 104x^3$

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

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

18) $13x^2(3x + x) - x^3 = 51x^3$

19) $3x^2(3x) = 9x^3$

20) $11x^2(5x + x) + x^3 = 67x^3$

21) $7x^2(6x + x) + x^3 = 50x^3$

22) $17x + 2x^2 = x(17 + 2x)$

23) $16x^2(7x) = 112x^3$

24) $11x^2(3x + x) = 44x^3$

25) $14x^2(7x) = 98x^3$

26) $2x^2(4x) = 8x^3$

27) $9x^2(2x) = 18x^3$

28) $14x + 3x^2 = x(14 + 3x)$

29) $18x^2(3x + x) = 72x^3$

30) $4x^2(4x + x) = 20x^3$