

# Simplifying Variable Expressions



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