

## Simplifying Variable Expressions



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