Simplifying Polynomial Expressions

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Simplify each polynomial.

1) $(16x^3 + 7x^2 - 7x^3) + (23x^2 - 23x^3 + 14x^2) =$

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

3) $11x^3 + 7x^2 - 5x^3 + 16x^2 - 18x^3 + 12x^2 =$

4) $(10x^3 + 5x^2 - 5x^3) + (15x^2 - 15x^3 + 10x^2) =$

5) $8x^3 + 5x^2 - 2x^3 + 10x^2 - 13x^3 + 7x^2 =$

6) $4x + 7x^2 - x^3 + 5x =$

7) $(13x^3 + 4x^2 - 2x^3) + (15x^2 - 17x^3 + 6x^2) =$

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

9) $9x^3 + 4x^2 - 5x^3 + 14x^2 - 13x^3 + 9x^2 =$

10) $(7x^3 + 6x^2 - 5x^3) + (12x^2 - 13x^3 + 11x^2) =$

11) $10x^3 + 7x^2 - 2x^3 + 12x^2 - 17x^3 + 9x^2 =$

12) $(6x^3 + 7x^2 - 7x^3) + (13x^2 - 13x^3 + 14x^2) =$

13) $10x + 6x^2 - x^3 + 7x =$

14) $19x^3 + 5x^2 - 4x^3 + 23x^2 - 24x^3 + 9x^2 =$

15) $2x + 5x^2 + x^3 + 3x - 3 =$

16) $6x + 4x^2 + x^3 + 7x - 7 =$

17) $(11x^3 + 6x^2 - 4x^3) + (15x^2 - 17x^3 + 10x^2) =$

18) $(5x^3 + 5x^2 - 2x^3) + (7x^2 - 10x^3 + 7x^2) =$

19) $(14x^3 + 7x^2 - 4x^3) + (18x^2 - 21x^3 + 11x^2) =$

20) $15x + 3x^2 - x^3 + 4x =$

21) $7x + 7x^2 - x^3 + 7x =$

22) $18x^3 + 3x^2 - 4x^3 + 22x^2 - 21x^3 + 7x^2 =$

23) $9x + 3x^2 - x^3 + 7x =$

24) $21x + 5x^2 - x^3 + 3x =$

25) $18x + 3x^2 + x^3 + 3x - 3 =$

26) $17x + 2x^2 - x^3 + 5x =$

27) $12x + 4x^2 + x^3 + 3x - 3 =$

28) $8x + 2x^2 - x^3 + 5x =$

29) $20x^3 + 7x^2 - 3x^3 + 23x^2 - 27x^3 + 10x^2 =$

30) $5x + 4x^2 + x^3 + 4x - 4 =$

Answers of Simplifying Polynomial Expressions

Simplify each polynomial.

1) $(16x^3 + 7x^2 - 7x^3) + (23x^2 - 23x^3 + 14x^2) = -14x^3 + 44x^2$

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

3) $11x^3 + 7x^2 - 5x^3 + 16x^2 - 18x^3 + 12x^2 = -12x^3 + 35x^2$

4) $(10x^3 + 5x^2 - 5x^3) + (15x^2 - 15x^3 + 10x^2) = -10x^3 + 30x^2$

5) $8x^3 + 5x^2 - 2x^3 + 10x^2 - 13x^3 + 7x^2 = -7x^3 + 22x^2$

6) $4x + 7x^2 - x^3 + 5x = -x^3 + 7x^2 + 9x$

7) $(13x^3 + 4x^2 - 2x^3) + (15x^2 - 17x^3 + 6x^2) = -6x^3 + 25x^2$

8) $20x + 3x^2 + x^3 + 4x - 4 = x^3 + 3x^2 + 24x - 4$

9) $9x^3 + 4x^2 - 5x^3 + 14x^2 - 13x^3 + 9x^2 = -9x^3 + 27x^2$

10) $(7x^3 + 6x^2 - 5x^3) + (12x^2 - 13x^3 + 11x^2) = -11x^3 + 29x^2$

11) $10x^3 + 7x^2 - 2x^3 + 12x^2 - 17x^3 + 9x^2 = -9x^3 + 28x^2$

12) $(6x^3 + 7x^2 - 7x^3) + (13x^2 - 13x^3 + 14x^2) = -14x^3 + 34x^2$

13) $10x + 6x^2 - x^3 + 7x = -x^3 + 6x^2 + 17x$

14) $19x^3 + 5x^2 - 4x^3 + 23x^2 - 24x^3 + 9x^2 = -9x^3 + 37x^2$

15) $2x + 5x^2 + x^3 + 3x - 3 = x^3 + 5x^2 + 5x - 3$

16) $6x + 4x^2 + x^3 + 7x - 7 = x^3 + 4x^2 + 13x - 7$

17) $(11x^3 + 6x^2 - 4x^3) + (15x^2 - 17x^3 + 10x^2) = -10x^3 + 31x^2$

18) $(5x^3 + 5x^2 - 2x^3) + (7x^2 - 10x^3 + 7x^2) = -7x^3 + 19x^2$

19) $(14x^3 + 7x^2 - 4x^3) + (18x^2 - 21x^3 + 11x^2) = -11x^3 + 36x^2$

20) $15x + 3x^2 - x^3 + 4x = -x^3 + 3x^2 + 19x$

21) $7x + 7x^2 - x^3 + 7x = -x^3 + 7x^2 + 14x$

22) $18x^3 + 3x^2 - 4x^3 + 22x^2 - 21x^3 + 7x^2 = -7x^3 + 32x^2$

23) $9x + 3x^2 - x^3 + 7x = -x^3 + 3x^2 + 16x$

24) $21x + 5x^2 - x^3 + 3x = -x^3 + 5x^2 + 24x$

25) $18x + 3x^2 + x^3 + 3x - 3 = x^3 + 3x^2 + 21x - 3$

26) $17x + 2x^2 - x^3 + 5x = -x^3 + 2x^2 + 22x$

27) $12x + 4x^2 + x^3 + 3x - 3 = x^3 + 4x^2 + 15x - 3$

28) $8x + 2x^2 - x^3 + 5x = -x^3 + 2x^2 + 13x$

29) $20x^3 + 7x^2 - 3x^3 + 23x^2 - 27x^3 + 10x^2 = -10x^3 + 40x^2$

30) $5x + 4x^2 + x^3 + 4x - 4 = x^3 + 4x^2 + 9x - 4$