



Simplifying Polynomial Expressions



Simplify each polynomial.

1) $3x^2 - 5x^3 - x(4x^3 + x) =$

2) $17k + 8k^3 - 8 - 2(k^4 - 3) =$

3) $17x^3 - 7x^4 - 18x^3 + 10x^4 =$

4) $10 + 2y^3 - (8y^3 - y^2 + 5) =$

5) $(5z^3 + 8z - 8z^2) - (8z^3 - 8z^2 + 10z) =$

6) $7 - 7x^3 + 6x - 10x^2 + 15x^3 =$

7) $8m^4 + m - 2 - 10 - 5m^2 + 3m^4 =$

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

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

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

11) $2x^2 - 4x^4 + 10x^4 - 11x^3 =$

12) $5x^3 - (4x^4 + 2x) - 4x^3 =$

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

14) $5x^4 - 25 + 5(6x^4 + 5) =$



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Answers



Simplify each polynomial.

$$1) 3x^2 - 5x^3 - x(4x^3 + x) = -4x^4 - 5x^3 + 2x^2$$

$$2) 17k + 8k^3 - 8 - 2(k^4 - 3) = 8k^3 + 17k - 2$$

$$3) 17x^3 - 7x^4 - 18x^3 + 10x^4 = 3x^4 - x^3$$

$$4) 10 + 2y^3 - (8y^3 - y^2 + 5) = -6y^3 + y^2 + 5$$

$$5) (5z^3 + 8z - 8z^2) - (8z^3 - 8z^2 + 10z) = -3z^3 - 2z$$

$$6) 7 - 7x^3 + 6x - 10x^2 + 15x^3 = 8x^3 - 10x^2 + 6x + 7$$

$$7) 8m^4 + m - 2 - 10 - 5m^2 + 3m^4 = 11m^4 - 5m^2 - 12$$

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

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

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

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

$$12) 5x^3 - (4x^4 + 2x) - 4x^3 = -4x^4 + x^3 - 2x$$

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

$$14) 5x^4 - 25 + 5(6x^4 + 5) = 35x^4$$



QUIZ ?

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