

Name : _____

Score : _____

Teacher : _____

Date : _____

Adding and Subtracting Polynomials

Simplify each expression.

1) $(4b + 2b^4) + (5b - 8b^4) - (9b - 7b^2 - 6b^4)$

6) $(3y^3 - 2y) - (7y + 5y^3)$

2) $(3 + 7x^3) - (2x^4 + 5 + 6x^3) + (4 - 8x - 9x^3)$

7) $(3b^2 + 4b^3) + (5b^3 - 9)$

3) $(8k^3 - 5k^2 - 6) + (9k^2 + 3) + (4k^3 + 7k^2)$

8) $(7s^2 - 5s^5) - (9s^5 - 8s^2)$

4) $(4c^2 + 2c - 5) + (7c + 3) - (6c^4 - 8c^2 + 9c)$

9) $(7d^2 - 2d^3) + (9d^4 + 3d^3 - 4) - (5d^4 + 8d - 6)$

5) $(5k^4 + 8) + (2 - 7k^3 - 6k^4)$

10) $(k^4 + 6k^3 + 3) + (9k^4 - 7 + 5k^3) - (2k^3 - 4k - 8)$



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Simplify each expression.

1) $(4b + 2b^4) + (5b - 8b^4) - (9b - 7b^2 - 6b^4)$
 $0b^4 + 7b^2 + 0b$

6) $(3y^3 - 2y) - (7y + 5y^3)$
 $- 2y^3 - 9y$

2) $(3 + 7x^3) - (2x^4 + 5 + 6x^3) + (4 - 8x - 9x^3)$
 $- 2x^4 - 8x^3 - 8x + 2$

7) $(3b^2 + 4b^3) + (5b^3 - 9)$
 $9b^3 + 3b^2 - 9$

3) $(8k^3 - 5k^2 - 6) + (9k^2 + 3) + (4k^3 + 7k^2)$
 $12k^3 + 11k^2 - 3$

8) $(7s^2 - 5s^5) - (9s^5 - 8s^2)$
 $- 14s^5 + 15s^2$

4) $(4c^2 + 2c - 5) + (7c + 3) - (6c^4 - 8c^2 + 9c)$
 $- 6c^4 + 12c^2c + -2$

9) $(7d^2 - 2d^3) + (9d^4 + 3d^3 - 4) - (5d^4 + 8d - 6)$
 $4d^4 + d^3 + 7d^2 - 8d + 2$

5) $(5k^4 + 8) + (2 - 7k^3 - 6k^4)$
 $- k^4 - 7k^3 + 10$

10) $(k^4 + 6k^3 + 3) + (9k^4 - 7 + 5k^3) - (2k^3 - 4k - 8)$
 $10k^4 + 9k^3 + 4k + 4$

