

Name : \_\_\_\_\_

Score : \_\_\_\_\_

Teacher : \_\_\_\_\_

Date : \_\_\_\_\_

## Adding and Subtracting Polynomials

Simplify each expression.

1)  $(8x^3 + 2) - (7x^3 + 3 + 9x^2) + (6x^2 - 5x)$

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

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

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

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

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

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

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

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

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



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## Adding and Subtracting Polynomials

**Simplify each expression.**

1)  $(8x^3 + 2) - (7x^3 + 3 + 9x^2) + (6x^2 - 5x)$   
 $x^3 - 15x^2 - 5x -$

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

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

7)  $(9c^2 + 4) + (3c^2 + 2 - c^3) - (7c^3 - 8)$   
 $- 8c^3 + 12c^2 + 14$

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

8)  $(7s - 3s^4) + (4s - 6s^4) + (9s - 2s^2 + 5s^4)$   
 $- 4s^4 - 2s^2 + 20s$

4)  $(9z^2 - 7z^4) + (6z^2 + 8z^3) + (3z^3 - 2z^4 - 5z^2)$   
 $- 9z^4 + 11z^3 + 10z^2$

9)  $(4x^2 - 3x^3 - 5x^4) + (6x^4 - 2) + (7x^3 + 9x^2)$   
 $x^4 + 4x^3 + 13x^2 - 2$

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

10)  $(3k - 5k^4) - (9k + 2k^4) - (4k - 6k^2 + 7k^4)$   
 $- 14k^4 + 6k^2 - 10k$

