

Name : _____

Score : _____

Teacher : _____

Date : _____

Adding and Subtracting Polynomials

Simplify each expression.

1) $(2p^2 - 7p^3 + 3p^4) + (4p^4 - 8) + (9p^3 + 5p^2)$

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

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

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

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

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

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

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

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

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



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Simplify each expression.

1) $(2p^2 - 7p^3 + 3p^4) + (4p^4 - 8) + (9p^3 + 5p^2)$
 $7p^4 + 2p^3 + 7p^2 - 8$

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

2) $(7c^2 - 2c^4) + (9c^2 - 3c^3) + (8c^3 - 5c^4 + 6c^2)$
 $- 7c^4 + 5c^3 + 22c^2$

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

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

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

4) $(9 - 6y^3 - 5y^4) + (4y^4 + 8) - (3y^3 - 2y^2)$
 $- y^4 - 9y^3 + 2y^2 + 17$

9) $(5 + 9b^3) - (8b^5 - 4 - 3b^3) + (6 - 2b)$
 $- 8b^5 + 12b^3 - 2b + 15$

5) $(4r^5 - 2) - (3r^5 - 8 + 5r^4) - (9r^4 + 6r)$
 $r^5 - 14r^4 - 6r + 6$

10) $(4k^3 + 7) - (2k^3 + 5 + 3k^2) + (9k^2 - 6k)$
 $2k^3 - 12k^2 - 6k + 2$

