

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

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

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

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

## Adding and Subtracting Polynomials

Simplify each expression.

1)  $(6r + 5r^4) + (3r + 7r^3) + (4r^3 - 9r^4 - 2r)$

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

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

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

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

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

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

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

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

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



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Simplify each expression.

$$1) (6r + 5r^4) + (3r + 7r^3) + (4r^3 - 9r^4 - 2r) \\ - 4r^4 + 11r^3 + 7r$$

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

$$2) (5z^2 - 2z^4 + 9) + (4z^2 - 3z^3) - (7z^3 - 6z^4 + 8) \\ 4z^4 - 10z^3 + 9z^2 + 1$$

$$7) (2x + 4x^4) - (8x - 6x^4 + 9) \\ 10x^4 - 6x - 9$$

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

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

$$4) (6b^2 - 7b^3) + (3b^3 + 4b^4 + 8b^2) \\ 4b^4 - 4b^3 + 14b^2$$

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

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

$$10) (h^5 - 2h^3 + 8) - (5h^5 - 6 + 4h^3) - (7h^3 + 9h + 3) \\ - 4h^5 - 13h^3 - 9h + 11$$

