Name : _____ Score : _____

Teacher : _____ Date : _____

Adding and Subtracting Polynomials

Simplify each expression.

1) $(5r^4 - 6r^3 - 2) + (8r^3 + 3r^2 + 9)$

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

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

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

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

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

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

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

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

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

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Adding and Subtracting Polynomials

Simplify each expression.

1) $(5r^4 - 6r^3 - 2) + (8r^3 + 3r^2 + 9)$

$5r^4 + 2r^3 + 3r^2 + 7$

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

$2y^5 + 12y^3 + 3y - 3$

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

$6r^4 + 11r^2 - r - 2$

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

$3b^4 - 7b^2 + 9b - 8$

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

$5p^4 - 5p^3 - 2p^2 - 1$

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

$- c^4 + 8c^2 + 7c + 5$

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

$- 16p^4 - 8p^2 - 5p - 1$

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

$- 3d^4 - 2d^2 - 6d - 2$

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

$7r^4 + 9r^2 - r + 9$

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

$14y^4 + 4y^2 - 8y - 10$