Name : _____ Score : _____

Teacher : _____ Date : _____

# Adding and Subtracting Polynomials

**Simplify each expression.**

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

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

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

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

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

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

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

8) $(9y + 7y^4) + (6y - 4y^4 + 8)$

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

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

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# Adding and Subtracting Polynomials

**Simplify each expression.**

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

$11d^4 - 9d^2 + d - 7$

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

$- s^4 + 8s^3 + 9s^2 + 13$

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

$- 7n^4 + 3n^2 + 8n + 3$

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

$15h^4 - 4h^3 - 3h^2 + 5h + 7$

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

$2b^4 + 4b^3 + 5$

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

$9r^4 + 10r^3 + 5r^2 - 2$

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

$- 6x^5 + 2x^2 - 3x - 6$

8) $(9y + 7y^4) + (6y - 4y^4 + 8)$

$3y^4 + 15y + 8$

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

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

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

$- 3d^4 + 4d^2 + 1$