

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

## Simplifying Polynomial Expressions

ES4

Simplify each expression.

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

2)  $k^2 - 6k^2 + 15k^3 - 10$

3)  $3t^9 + 8t^8 - 12t^9 + 5$

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

5)  $11(4z^{10} - 4z^5)$

$-15y^5 + 5y^6 + 15$

7)  $6g^5(g - 7g^3)$

$6 - 8m^6 - 48$

9)  $14r^7 - 7r + r^2$

$-5a^3 + 8a^3 + 37$

11)  $4c^9 + 3(11c^3 - c^2 + 5c^9)$

12)  $-2(d^6 + 11) - d(14 + d^5)$

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