

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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Name : _____

Answer key

Simplifying Polynomial Expressions

ES4

Simplify each expression.

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

$5p^7 - 12p^5 - 25p^2$

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

$-10 - 5k^2 + 15k^3$

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

$5 + 8t^8 - 9t^9$

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

-7

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

$-11z^{10} - 44z^5$

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

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

$13g^8 + 6g^6$

$6 - 8m^6 - 48$

9) $14r^7 - 7r + r^5$

$-7r - 5r^4 + 35r^6 + 24r^7$

$5 + 9m^9$

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

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

$19c^9 + 33c^3 - 3c^2$

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

$-22 - 14d - 3d^6$

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