

Name : _____

Simplifying Polynomial Expressions

ES3

Simplify each expression.

1) $10x^3 - 2x^2 + 5x^3 - 6x^2$

2) $9 + 2a^5 - 3a^6 + 5a^5 - a^6 - 1$

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

4) $5s(s^2 + 2) - 7s(s^2 + 5)$

5) $10d^2 - 5d^3 +$

$5r^5 + 7(r^7 - 3r^2)$

7) $2(4 + 2g - 6)$

$x - 7) - (4x^2 + 2x^2)$

9) $c(10 - 7c^9 +$

$(2n^3 - 5n^3 + 4)$

11) $11m^9 - 2m^7 + 5m^3 + 8m^7 - 3m^9 + 10m^3$ 12) $6(b^2 - 2b^4 + 5) - 10b^4 - 9b^2$

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Simplifying Polynomial Expressions

Simplify each expression.

1) $10x^3 - 2x^2 + 5x^3 - 6x^2$

$-8x^2 + 15x^3$

2) $9 + 2a^5 - 3a^6 + 5a^5 - a^6 - 1$

$8 + 7a^5 - 4a^6$

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

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

4) $5s(s^2 + 2) - 7s(s^2 + 5)$

5) $10d^2 - 5d^3 +$

$10d^2 - 2d^3 -$

7) $2(4 + 2g - 6)$

$5g^3 - 10g^2 -$

9) $c(10 - 7c^9 +$

$-7c^{10} + 2c^7 - 6c$

11) $11m^9 - 2m^7 + 5m^3 + 8m^7 - 3m^9 + 10m^3$

$15m^3 + 6m^7 + 8m^9$

12) $6(b^2 - 2b^4 + 5) - 10b^4 - 9b^2$

$-22b^4 - 3b^2 + 30$

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