

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

## Simplifying Polynomial Expressions

ES2

Simplify each expression.

1)  $2a^2 - 8a^2 + 5a^3 - 11a^2$

2)  $10(3t^2 + 2t^4) - 5(t^3 + 2)$

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

4)  $-4d^8 - 3 + 5d^4 - 8d^8 + 7$

5)  $15s^5 - 2s^5 +$

$- 5c^4 + 7c + 10c^4$

7)  $9m^3 + m + 2$

$- 4g(g^2 + 5)$

9)  $-4(x^2 - 2) +$

$5r^3 + 3 - 20r$

11)  $(7n^6 + 5n^8 + 4) - (4n^6 - 2n^8 + 1)$

12)  $11b^2 + 2b^2 - 5b^3 - 3b^2$

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**Simplifying Polynomial Expressions**

Simplify each expression.

1)  $2a^2 - 8a^2 + 5a^3 - 11a^2$

$-17a^2 + 5a^3$

2)  $10(3t^2 + 2t^4) - 5(t^3 + 2)$

$30t^2 - 5t^3 + 20t^4 - 10$

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

$-9p^2 - p^3$

4)  $-4d^8 - 3 + 5d^4 - 8d^8 + 7$

$12d^8$

5)  $15s^5 - 2s^5 +$

$-5c^4 + 7c + 10c^4$

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$13s^5 + 7s^7 +$

$+ 5c^4$

7)  $9m^3 + m + 2$

$-4g(g^2 + 5)$

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$m + 2m^2 + 6$

$9$

9)  $-4(x^2 - 2) +$

$5r^3 + 3 - 20r$

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$2x^2 + 38$

$-14r^3 - 18r + 3$

11)  $(7n^6 + 5n^8 + 4) - (4n^6 - 2n^8 + 1)$

12)  $11b^2 + 2b^2 - 5b^3 - 3b^2$

$7n^8 + 3n^6 + 3$

$10b^2 - 5b^3$