

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

## Simplifying Polynomial Expressions

ES5

Simplify each expression.

1)  $4b^3 - 2b^2 - 5(8b^3 + 6)$

2)  $7s^6 - 5s^8 + 2s + 3s^8 - 15$

3)  $-2r^2 + 14r^5 + 7(r^7 - 4r^2)$

4)  $8z(z^2 + 2) - 7z + 9$

5)  $7 + c^6(2c^3 +$

$- 5(d^3 - 4)$

7)  $8(4 + 2y - 6)$

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

9)  $3(m^2 - 2m^4)$

$- 2p^3 + 5p^2 + 12$

11)  $5(a^2 - 5a^7) + 6(3a^2 + 5a^7)$

12)  $g(6 - 7g^9 + 11g^6 - 16)$

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## Simplifying Polynomial Expressions

Simplify each expression.

1)  $4b^3 - 2b^2 - 5(8b^3 + 6)$

$-36b^3 - 2b^2 - 30$

2)  $7s^6 - 5s^8 + 2s + 3s^8 - 15$

$-15 + 2s + 7s^6 - 2s^8$

3)  $-2r^2 + 14r^5 + 7(r^7 - 4r^2)$

$-30r^2 + 14r^5 + 7r^7 - 28r^2$

4)  $8z(z^2 + 2) - 7z + 9$

$9$

5)  $7 + c^6(2c^3 + 5)$

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

$3c^{10} + 2c^9 - 7$

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$l + 5d^3$

7)  $8(4 + 2y - 6z) - 3$

$32 + 21y - 48z - 3$

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

9)  $3(m^2 - 2m^4) - 16m^4 + 3m^2 + 1$

$-16m^4 + 3m^2 + 1$

$3 + 11n^2$

$-2p^3 + 5p^2 + 12$

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11)  $5(a^2 - 5a^7) + 6(3a^2 + 5a^7)$

$23a^2 + 5a^7$

$12 + 2p^2 - 2p^3$

12)  $g(6 - 7g^9 + 11g^6 - 16)$

$-7g^{10} + 11g^7 - 10g$