

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

## Simplify: Multi-variable Expressions

ES4

Simplify each expression.

1)  $5m^2n - 8 - 3m^2n + 5$

2)  $3b^2 + b^2 + 2bc - 9bc$

3)  $4p^2 - 5q - r^2 + 5q + 2r^2 - 3p^2$

4)  $-yz^3 + 1 + 5yz^3$

5)  $-a^5 - 2b^2 +$

$5 + 14$

7)  $6xy^2z - 3 -$

$v^4 - 2u^2$

9)  $8c^6d - 5cd^2$

$h^3 - 8$

11)  $2s + 7t + u + 2s - 3t - u$

12)  $7p^3q^3r^3 + q^6r^6 - p^3q^3r^3$

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**Simplify: Multi-variable Expressions**

Simplify each expression.

1)  $5m^2n - 8 - 3m^2n + 5$

**$2m^2n - 3$**

2)  $3b^2 + b^2 + 2bc - 9bc$

**$4b^2 - 7bc$**

3)  $4p^2 - 5q - r^2 + 5q + 2r^2 - 3p^2$

**$p^2 + r^2$**

4)  $-yz^3 + 1 + 5yz^3$

5)  $-a^5 - 2b^2 +$

**$3b^2 + 2c^2$**

7)  $6xy^2z - 3 -$

**$5xy^2z - 9$**

9)  $8c^6d - 5cd^7$

**$9c^6d + 4cd^7$**

11)  $2s + 7t + u + 2s - 3t - u$

**$4s + 4t$**

12)  $7p^3q^3r^3 + q^6r^6 - p^3q^3r^3$

**$6p^3q^3r^3 + q^6r^6$**

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$5 + 14$

$v^4 - 2u^2$

$h^3 - 8$