

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

## Simplify: Multi-variable Expressions

ES2

Simplify each expression.

1)  $x^2 + 2xy + y^2 + x^2 - 2xy + y^2$

2)  $6c - 3d + 4 - 2c + 3d - 5$

3)  $2a^2b^2 + 9ab + 3a^2b^2 - 6ab$

4)  $2pq - 2rs + 2pr + pq - 2rs + 3pr$

5)  $8pqr^2 + 7p$

6)  $xy^2 + y^3 - 3x^2y$

7)  $4u^2v + 11u$

8)  $8b^2 + a^2 + c^2$

9)  $x + 10y - z$

10)  $3m^4 - 2n^2$

11)  $2a^2 + 3ab - b^2 + 1 - a^2 + ab - 2$

12)  $9p^2q^2r^2 + q^2r^2 - 3p^2q^2r^2$

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