

Name : _____

Simplify: Multi-variable Expressions

ES1

Simplify each expression.

1) $3x^2 - 4xy + 4x^2 + 3xy$

2) $5v^2 - 7u + v^2 - u$

3) $5 - 4 + 6a^3b + 3a^3b$

4) $n - 5m^2 - 6 - n + 7m^2 + 8$

5) $2pq - 3 + 7$

$^2 + 4y^4$

7) $8abc^2 + ab$

$3p^2q - 4rs$

9) $-6x^2yz + 4y$

$mn^3 - 9$

11) $2q^2 + 4q^2 + 6qr - 4qr$

12) $a^2 - b^2 + 2b^2 - c^2 + 2c^2 - a^2$

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Name : _____

Answer key

Simplify: Multi-variable Expressions

ES1

Simplify each expression.

1) $3x^2 - 4xy + 4x^2 + 3xy$

$7x^2 - xy$

2) $5v^2 - 7u + v^2 - u$

$6v^2 - 8u$

3) $5 - 4 + 6a^3b + 3a^3b$

$9a^3b + 1$

4) $n - 5m^2 - 6 - n + 7m^2 + 8$

5) $2pq - 3 + 7$

$pq + 4$

7) $8abc^2 + ab$

$9abc^2 + 2$

9) $-6x^2yz + 4y$

$5x^2yz + 11y^2z$

11) $2q^2 + 4q^2 + 6qr - 4qr$

$6q^2 + 2qr$

12) $a^2 - b^2 + 2b^2 - c^2 + 2c^2 - a^2$

$b^2 + c^2$

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