

Name : _____

Simplify: Multi-variable Expressions

MS3

Simplify each expression.

$$1) \quad 7m - 9n^2 - (-3n^2 + 8m + 1) + 15$$

$$2) \quad \frac{1}{4}(4x^2y^2 + 5xyz + 3x^2y^2 - xyz + x^2y^2)$$

$$3) \quad a - 2(b - c) + 5$$

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$$7) \quad \frac{1}{5}(3yz + 4(2yz))$$

$$9) \quad a^3b^3 + 7abc - (9a^3b^3 - 4 + 15)$$

$$10) \quad \frac{1}{2}(-9p^2q^2r^2 + 7qr^4 - 5qr^4 - 3p^2q^2r^2)$$