Name : _____

Simplify: Multi-variable Expressions

Simplify each expression.

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

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

3) $a - 2(b - c) + 5($ ...

4) ... $u^2v^2) + 4(uv - u^2v^2)$

5) $p - 5q^2 - 7 - ($ ... $1 - s^2 + st + 8$

7) $\frac{1}{5}(3yz + 4(2yz$ ... $7v^3w^3 - vw - (2vw)^3$

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

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