

Name : _____

Simplify: Multi-variable Expressions

MS1

Simplify each expression.

1) $(5a^2 + 7b + 3) - (3a^2 - 4b + 7)$

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

3) $5(q^2 + 2qr - s^2) - (q^2 + c^2 - qr - 2a^2)$

4) $2e^6 - 2d + 2(15c^6 - 4c^6 + 3d)$

5) $(4ab^4 - 7 - 3ac)$

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$m^2n + n - 2) - 3$

7) $\frac{1}{2}(6xyz - 2xy +$

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$6u + 4v - 7$

9) $p + 7 - (2q - 3p - 2q + 3r) - 12$

10) $\frac{3}{2}((4a^3 - 2b^2 + 1) - (2c - 1 - 2b^2))$