

Name : _____

Simplify: Algebraic Identities

Simplify each expression.

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

2) $(x - y - z)^2 - (x + y - z)^2 + 4xy$

3) $(uv - 2w)^3 - uv(uv$

$+ q - r)^2$

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5) $\frac{k^4 + 8k^2 + 15}{k^2 + 5} - 3$

$(2)^3$

7) $(c - d + 1)^2 - (c - d)^2 + 2d - 2c$

8) $\frac{(n + 2)^2 (n + 6)}{(n + 4)^2 - 4}$