



Simplifying Algebraic Expressions

Name _____

Score _____

SAE:09

Simplify each algebraic expression.

1) $m(n + 1) - n(m + 6) + 8$

2) $t - 6 + u + 9 - 2u + 5t$

3) $c^3 + 2d^2 - 1 + 3c^3 - d^2 + 4$

4) $y^2(z - 1) + 2z(5 + y^2)$

5) $3w(x + 2y) - w(3y - 5x)$

6) $2(a - 4b) + 6(b + 2a) - (a - b)$

7) $g(g + 1) - h(h - 4) + 3h^2 - g^2$

8) $3(3p - q) - 5(6q + 4p)$



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Answer key

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Simplify each algebraic expression.

1) $m(n + 1) - n(m + 6) + 8$

$m - 6n + 8$

2) $t - 6 + u + 9 - 2u + 5t$

$6t - u + 3$

3) $c^3 + 2d^2 - 1 + 3c^3 - d^2 + 4$

$4c^3 + d^2 + 3$

4) $y^2(z - 1) + 2z(5 + y^2)$

$3y^2z - y^2 + 10z$

5) $3w(x + 2y) - w(3y - 5x)$

$8wx + 3wy$

6) $2(a - 4b) + 6(b + 2a) - (a - b)$

$13a - b$

7) $g(g + 1) - h(h - 4) + 3h^2 - g^2$

$2h^2 + g + 4h$

8) $3(3p - q) - 5(6q + 4p)$

$-11p - 33q$