



Simplifying Algebraic Expressions

Name _____

Score _____

SAE:07

Simplify each algebraic expression.

1) $3 - p^3 + 4q^2 - q^2(p - 2) - p^3$

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

3) $h^3 + 2 - 4g^2 - h^3 + 6 - 5g^2 - 1$

4) $2(3v + 5u^2) - 7v + u^2 - 9v$

5) $y(y + x) + x(4 - y) - 2y^2$

6) $4t^2 - 5s^3 + 6r^4 - 2s^3 + t^2 - r^4$

7) $a^2 + 17 - b(5 + 3b) + a^2 - b - 6$

8) $3(4m + 3n) - 7(n - 2m)$



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Answer key

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Simplify each algebraic expression.

1) $3 - p^3 + 4q^2 - q^2(p - 2) - p^3$

$-2p^3 + 6q^2 - pq^2 + 3$

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

$13d^2 - 2cd^2$

3) $h^3 + 2 - 4g^2 - h^3 + 6 - 5g^2 - 1$

$-9g^2 + 7$

4) $2(3v + 5u^2) - 7v + u^2 - 9v$

$11u^2 - 10v$

5) $y(y + x) + x(4 - y) - 2y^2$

$-y^2 + 4x$

6) $4t^2 - 5s^3 + 6r^4 - 2s^3 + t^2 - r^4$

$5r^4 - 7s^3 + 5t^2$

7) $a^2 + 17 - b(5 + 3b) + a^2 - b - 6$

$2a^2 - 3b^2 - 6b + 11$

8) $3(4m + 3n) - 7(n - 2m)$

$26m + 2n$