Simplifying Algebraic Expressions

Simplify each algebraic expression.

1) $2(a + b) - 3(a + b) + 5(2a - b)$

2) $x(y - 4) + y(3 + x) - 5y + 2x$

3) $2(p^2 - q^2) - 5(q^2 - p^2)$

4) $-n^3 + 2m^3 - 5mn + 4n^3 - 6m^3 + mn$

5) $3u^2 - 4v^3 + 6u^2 - 7v^3 - 1 + 8$

6) $7(g^4 + h^4) - 2h^4 + g^4$

7) $5c - 6 + 10d - 1 + 2c - d + 3$

8) $2(s + t) - 4(2t - 3s) + 11(t - s)$

Simplifying Algebraic Expressions

Name _____

Score _____

SAE:08

Simplify each algebraic expression.

1) $2(a + b) - 3(a + b) + 5(2a - b)$

9a – 6b

2) $x(y - 4) + y(3 + x) - 5y + 2x$

–2x + 2xy – 2y

3) $2(p^2 - q^2) - 5(q^2 - p^2)$

7p² – 7q²

4) $-n^3 + 2m^3 - 5mn + 4n^3 - 6m^3 + mn$

–4m³ – 4mn + 3n³

5) $3u^2 - 4v^3 + 6u^2 - 7v^3 - 1 + 8$

9u² – 11v³ + 7

6) $7(g^4 + h^4) - 2h^4 + g^4$

8g⁴ + 5h⁴

7) $5c - 6 + 10d - 1 + 2c - d + 3$

7c + 9d – 4

8) $2(s + t) - 4(2t - 3s) + 11(t - s)$

3s + 5t