

# Simplifying Quadratic Expressions (A)

Simplify each expression by combining like terms.

1.  $3g^2 - 4g^2 + 4g + 8g - 5g^2 + g^2 + 5g^2 + 8g + 1$

2.  $-3d + 3d^2 + 6d^2 + 6d - 6d^2 + 8d + 9d^2 - 3d^2 - 4d^2$

3.  $-6t + 9 + 8t - t^2 + 4 - t^2 - 6 - 3 - 7t$

4.  $-2t - 2 - 3t^2 - 5t^2 + 5 + 8t^2 - 4t^2 - 2t^2 + 5t$

5.  $-4j - 2 + 3j^2 + 4j - 7j + j^2 - 2 + 7j^2 - 7j^2$

6.  $3 + 2 + 2c - 2c + 6c^2 + 5 - 8c^2 + 1 - 3c^2$

7.  $3 + 2q^2 + 5 + 1 + 5q - 7q - 7 + 9q^2 + 9q^2$

8.  $-4v - 7v^2 - 2v^2 - 2 - 3v + 9v - 2v^2 + 9 + 6v^2$

9.  $-6 + 4 + 2 + x^2 + 2x^2 - x^2 - 5x^2 - 3 - 3x$

10.  $-6 + 3f + 3 + 4f - 6f - 3f^2 - 2f + 5f^2 - f^2$