

Adding & Subtracting Quadratic Expressions (C)

Simplify each expression.

1. $(-9t^2 - 2t + 7) + 6(-2t^2 - 8t + 7)$

2. $-(5s^2 + 6s + 4) - (8s^2 + 8s + 3)$

3. $8(-3x^2 - 7x - 6) - 6(5x^2 - 8x + 8)$

4. $(6g^2 - 4g + 2) - 9(-9g^2 - 9g - 1)$

5. $(-4b^2 - 9b - 7) + (2b^2 + 2b + 9)$

6. $(4m^2 - 4m + 7) - 4(m^2 - 4m + 3)$

7. $(-2b^2 + 9b - 9) - 5(-4b^2 - 3b - 9)$

8. $-2(-3z^2 - 8z - 9) + 4(2z^2 - 8z + 2)$

9. $3(4f^2 - 7f - 6) + 7(-5f^2 + 3f - 2)$

10. $7(8b^2 + 2b - 8) - (-8b^2 + b - 3)$

Adding & Subtracting Quadratic Expressions (C) Answers

Simplify each expression.

1. $(-9t^2 - 2t + 7) + 6(-2t^2 - 8t + 7)$
 $-21t^2 - 50t + 49$

2. $-(5s^2 + 6s + 4) - (8s^2 + 8s + 3)$
 $-13s^2 - 14s - 7$

3. $8(-3x^2 - 7x - 6) - 6(5x^2 - 8x + 8)$
 $-54x^2 - 8x - 96$

4. $(6g^2 - 4g + 2) - 9(-9g^2 - 9g - 1)$
 $87g^2 + 77g + 11$

5. $(-4b^2 - 9b - 7) + (2b^2 + 2b + 9)$
 $-2b^2 - 7b + 2$

6. $(4m^2 - 4m + 7) - 4(m^2 - 4m + 3)$
 $12m - 5$

7. $(-2b^2 + 9b - 9) - 5(-4b^2 - 3b - 9)$
 $18b^2 + 24b + 36$

8. $-2(-3z^2 - 8z - 9) + 4(2z^2 - 8z + 2)$
 $14z^2 - 16z + 26$

9. $3(4f^2 - 7f - 6) + 7(-5f^2 + 3f - 2)$
 $-23f^2 - 32$

10. $7(8b^2 + 2b - 8) - (-8b^2 + b - 3)$
 $64b^2 + 13b - 53$