

Adding & Subtracting Quadratic Expressions (F)

Simplify each expression.

1. $-3(-5t^2 - 3t - 5) + (-8t^2 - 2t + 2)$

2. $4(-5w^2 - 5w + 8) + (9w^2 + 9w + 3)$

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

4. $(-7r^2 - 2r + 2) + (-4r^2 - 4r - 8)$

5. $(-4q^2 - 9q - 4) + (q^2 + 4q + 9)$

6. $-(d^2 + 2) - 6(-9d^2 + 4d + 8)$

7. $(-4d^2 - 7d + 8) - 4(8d^2 + 2d + 4)$

8. $(7a^2 + 3a + 1) - 2(-5a^2 + 8a + 4)$

9. $8(-8h^2 + 9h + 5) + 9(-8h^2 - 3h + 3)$

10. $(g^2 - 7g + 4) + 8(-4g^2 - g - 4)$

Adding & Subtracting Quadratic Expressions (F) Answers

Simplify each expression.

1. $-3(-5t^2 - 3t - 5) + (-8t^2 - 2t + 2)$
 $7t^2 + 7t + 17$

2. $4(-5w^2 - 5w + 8) + (9w^2 + 9w + 3)$
 $-11w^2 - 11w + 35$

3. $(-x^2 - 7x - 9) + (4x^2 + 5x - 4)$
 $3x^2 - 2x - 13$

4. $(-7r^2 - 2r + 2) + (-4r^2 - 4r - 8)$
 $-11r^2 - 6r - 6$

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

6. $-(d^2 + 2) - 6(-9d^2 + 4d + 8)$
 $53d^2 - 24d - 50$

7. $(-4d^2 - 7d + 8) - 4(8d^2 + 2d + 4)$
 $-36d^2 - 15d - 8$

8. $(7a^2 + 3a + 1) - 2(-5a^2 + 8a + 4)$
 $17a^2 - 13a - 7$

9. $8(-8h^2 + 9h + 5) + 9(-8h^2 - 3h + 3)$
 $-136h^2 + 45h + 67$

10. $(g^2 - 7g + 4) + 8(-4g^2 - g - 4)$
 $-31g^2 - 15g - 28$