

Adding & Subtracting Quadratic Expressions (J)

Simplify each expression.

1. $3(3q^2 - q + 3) - 8(-q^2 + 8q - 4)$

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

3. $-7(4p^2 - 9p - 5) + 3(-3p^2 + 9p - 8)$

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

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

6. $4(5w^2 - 7w + 8) + 5(-7w^2 + 9w + 2)$

7. $-5(6q^2 + q - 2) + 5(-6q^2 - 9q - 6)$

8. $-7(4h^2 + 3h - 7) - 5(4h^2 + 5h + 6)$

9. $-8(-9k^2 + 9k + 9) - 7(6k^2 - 9k - 4)$

10. $6(-3m^2 + 8m - 8) + 8(-7m^2 + 6m - 8)$

Adding & Subtracting Quadratic Expressions (J) Answers

Simplify each expression.

1. $3(3q^2 - q + 3) - 8(-q^2 + 8q - 4)$
 $17q^2 - 67q + 41$

2. $-2(-3c^2 - 2c + 4) + 9(-7c^2 - 2c + 5)$
 $-57c^2 - 14c + 37$

3. $-7(4p^2 - 9p - 5) + 3(-3p^2 + 9p - 8)$
 $-37p^2 + 90p + 11$

4. $-8(2c^2 + 6c - 6) - 7(-c^2 + 2c - 2)$
 $-9c^2 - 62c + 62$

5. $7(-3r^2 - 4r + 9) - 5(7r^2 + 7r - 9)$
 $-56r^2 - 63r + 108$

6. $4(5w^2 - 7w + 8) + 5(-7w^2 + 9w + 2)$
 $-15w^2 + 17w + 42$

7. $-5(6q^2 + q - 2) + 5(-6q^2 - 9q - 6)$
 $-60q^2 - 50q - 20$

8. $-7(4h^2 + 3h - 7) - 5(4h^2 + 5h + 6)$
 $-48h^2 - 46h + 19$

9. $-8(-9k^2 + 9k + 9) - 7(6k^2 - 9k - 4)$
 $30k^2 - 9k - 44$

10. $6(-3m^2 + 8m - 8) + 8(-7m^2 + 6m - 8)$
 $-74m^2 + 96m - 112$