

Subtracting Quadratic Expressions (A)

Simplify each expression.

1. $7(-6x^2 - 9x - 5) - 4(-7x^2 - 7x + 7)$

2. $6(m^2 - m + 9) - 8(m^2 + 2m - 3)$

3. $-9(7k^2 - 4k + 6) - 2(2k^2 - 7k - 1)$

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

5. $-2(6x^2 - 8x + 1) - 6(3x^2 + 8x - 3)$

6. $-(q^2 - 9q + 3) - 2(-9q^2 - 2q - 1)$

7. $-4(-6d^2 + 8d - 1) - 8(5d^2 - 5d - 2)$

8. $5(-9b^2 - 8b + 8) - 4(-5b^2 + 2b - 1)$

9. $-9(2v^2 - v - 8) - 6(-5v^2 - 3v - 9)$

10. $6(2f^2 + 9f - 4) - 7(3f^2 - 7f - 7)$

Subtracting Quadratic Expressions (A) Answers

Simplify each expression.

1. $7(-6x^2 - 9x - 5) - 4(-7x^2 - 7x + 7)$
 $-14x^2 - 35x - 63$

2. $6(m^2 - m + 9) - 8(m^2 + 2m - 3)$
 $-2m^2 - 22m + 78$

3. $-9(7k^2 - 4k + 6) - 2(2k^2 - 7k - 1)$
 $-67k^2 + 50k - 52$

4. $7(-5m^2 + 8m + 8) - 3(5m^2 + 8m - 3)$
 $-50m^2 + 32m + 65$

5. $-2(6x^2 - 8x + 1) - 6(3x^2 + 8x - 3)$
 $-30x^2 - 32x + 16$

6. $-(q^2 - 9q + 3) - 2(-9q^2 - 2q - 1)$
 $17q^2 + 13q - 1$

7. $-4(-6d^2 + 8d - 1) - 8(5d^2 - 5d - 2)$
 $-16d^2 + 8d + 20$

8. $5(-9b^2 - 8b + 8) - 4(-5b^2 + 2b - 1)$
 $-25b^2 - 48b + 44$

9. $-9(2v^2 - v - 8) - 6(-5v^2 - 3v - 9)$
 $12v^2 + 27v + 126$

10. $6(2f^2 + 9f - 4) - 7(3f^2 - 7f - 7)$
 $-9f^2 + 103f + 25$