Adding Quadratic Expressions (A)

Simplify each expression.

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

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

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

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

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

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

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

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

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

10. $(2m^2 - m - 8) + (8m^2 + 4m - 5)$

Adding Quadratic Expressions (A) Answers

Simplify each expression.

1. $7(-7r^2 - 9r - 2) + 2(-2r^2 + 6r - 3)$
   $-53r^2 - 51r - 20$

2. $-4(-4f^2 + 3f - 8) + (-8f^2 - 4f - 9)$
   $8f^2 - 16f + 23$

3. $(-6b^2 + 6b - 2) + 4(-b^2 - 7b + 4)$
   $-10b^2 - 22b + 14$

4. $-(-9f^2 + f - 1) + (-5f^2 - 9f + 5)$
   $4f^2 - 10f + 6$

5. $8(2b^2 - 3b - 2) + (-2b^2 + 9b + 3)$
   $14b^2 - 15b - 13$

6. $(-5v^2 + 9v - 7) + 3(-3v^2 + 2v - 2)$
   $-14v^2 + 15v - 13$

7. $(-7b^2 - 2b + 5) + 3(2b^2 - 5b + 9)$
   $-b^2 - 17b + 32$

8. $(9v^2 + 2v - 4) + 7(3v^2 - 7v - 9)$
   $30v^2 - 47v - 67$

9. $-4(g^2 - 6g + 7) + 8(-7g^2 + 6g - 9)$
   $-60g^2 + 72g - 100$

10. $(2m^2 - m - 8) + (8m^2 + 4m - 5)$
    $10m^2 + 3m - 13$