Adding Quadratic Expressions (D)

Simplify each expression.

1. $2(-9r^2 - 5r - 6) + (3r^2 - 2r - 7)$

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

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

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

5. $(6b^2 - 4b - 5) + (9b^2 + 6b + 6)$

6. $-9(-2z^2 + 9z + 4) + (-z^2 + 3z - 3)$

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

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

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

10. $2(-7s^2 - 6s + 4) + 7(6s^2 + s - 2)$

Adding Quadratic Expressions (D) Answers

Simplify each expression.

1. $2(-9r^2 - 5r - 6) + (3r^2 - 2r - 7)$
   $-15r^2 - 12r - 19$

2. $3(-3r^2 + 6r + 6) + 4(5r^2 - r + 8)$
   $11r^2 + 14r + 50$

3. $4(c^2 + 5c - 8) + 8(6c^2 + 4c - 6)$
   $52c^2 + 52c - 80$

4. $(-9f^2 + 2f - 4) + (7f^2 + 6f + 5)$
   $-2f^2 + 8f + 1$

5. $(6b^2 - 4b - 5) + (9b^2 + 6b + 6)$
   $15b^2 + 2b + 1$

6. $-9(-2z^2 + 9z + 4) + (-z^2 + 3z - 3)$
   $17z^2 - 78z - 39$

7. $(4x^2 + 8x - 2) + (-7x^2 + 9x + 4)$
   $-3x^2 + 17x + 2$

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

9. $-4(-4d^2 - 2d + 4) + 9(d^2 + 9d + 9)$
   $25d^2 + 89d + 65$

10. $2(-7s^2 - 6s + 4) + 7(6s^2 + s - 2)$
    $28s^2 - 5s - 6$