Subtracting Quadratic Expressions (G)

Simplify each expression.

1. $(7s^2 - 2s + 7) - (-9s^2 - 8s - 3)$

2. $(r^2 + 2r - 1) - (r^2 - 2r + 1)$

3. $(4f^2 - 6f - 3) - (4f^2 - 5f - 1)$

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

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

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

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

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

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

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

Subtracting Quadratic Expressions (G) Answers

Simplify each expression.

1. $(7s^2 - 2s + 7) - (-9s^2 - 8s - 3)$
   $16s^2 + 6s + 10$

2. $(r^2 + 2r - 1) - (r^2 - 2r + 1)$
   $4r - 2$

3. $(4f^2 - 6f - 3) - (4f^2 - 5f - 1)$
   $-f - 2$

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

5. $(2a^2 - 3a - 1) - (a^2 + 8a - 7)$
   $a^2 - 11a + 6$

6. $(6q^2 - 3q - 4) - (5q^2 + 4q - 5)$
   $q^2 - 7q + 1$

7. $(-4h^2 - 8h - 2) - (-8h^2 - 9h + 8)$
   $4h^2 + h - 10$

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

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

10. $(2g^2 + 8g - 6) - (-2g^2 - 8g + 3)$
    $4g^2 + 16g - 9$