Subtracting Quadratic Expressions (H)

Simplify each expression.

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

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

3. $(-3y^2 - 5y - 7) - (y^2 - 5y - 4)$

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

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

6. $(7d^2 - 5d - 7) - (d^2 - 3d - 2)$

7. $(-9b^2 - b + 2) - (-8b^2 + 8b - 7)$

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

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

10. $(6x^2 + 7x - 8) - (9x^2 + 3x - 2)$

Subtracting Quadratic Expressions (H) Answers

Simplify each expression.

1. $(9g^2 + g - 9) - (5g^2 + 4g + 9)$
   $4g^2 - 3g - 18$

2. $(-4s^2 + s - 8) - (5s^2 + 9s + 3)$
   $-9s^2 - 8s - 11$

3. $(-3y^2 - 5y - 7) - (y^2 - 5y - 4)$
   $-4y^2 - 3$

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

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

6. $(7d^2 - 5d - 7) - (d^2 - 3d - 2)$
   $6d^2 - 2d - 5$

7. $(-9b^2 - b + 2) - (-8b^2 + 8b - 7)$
   $-b^2 - 9b + 9$

8. $(-4r^2 - 9r + 7) - (-6r^2 - 2r - 4)$
   $2r^2 - 7r + 11$

9. $(3b^2 - 6b + 3) - (-4b^2 + 7b + 7)$
   $7b^2 - 13b - 4$

10. $(6x^2 + 7x - 8) - (9x^2 + 3x - 2)$
    $-3x^2 + 4x - 6$