

Subtracting Quadratic Expressions (F)

Simplify each expression.

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

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

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

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

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

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

7. $(5h^2 + 9h - 5) - 7(3h^2 - 8h + 7)$

8. $5(-n^2 - 9n - 8) - 9(-7n^2 - n - 6)$

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

10. $(-8x^2 + 8x - 2) - 5(-6x^2 + 3x + 2)$

Subtracting Quadratic Expressions (F) Answers

Simplify each expression.

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

2. $-7(-5t^2 + 8t + 1) - 3(-6t^2 + 7t - 6)$
 $53t^2 - 77t + 11$

3. $(-9b^2 - 9b - 1) - 4(6b^2 + 7b + 6)$
 $-33b^2 - 37b - 25$

4. $-7(-5g^2 + 4g - 9) - 7(5g^2 + 8g + 6)$
 $-84g + 21$

5. $(-9w^2 + 8w - 1) - 8(2w^2 + 6w - 4)$
 $-25w^2 - 40w + 31$

6. $(-3w^2 - 4w + 2) - (-5w^2 + 5w - 4)$
 $2w^2 - 9w + 6$

7. $(5h^2 + 9h - 5) - 7(3h^2 - 8h + 7)$
 $-16h^2 + 65h - 54$

8. $5(-n^2 - 9n - 8) - 9(-7n^2 - n - 6)$
 $58n^2 - 36n + 14$

9. $(3w^2 - 5w + 7) - 6(5w^2 - 7w + 7)$
 $-27w^2 + 37w - 35$

10. $(-8x^2 + 8x - 2) - 5(-6x^2 + 3x + 2)$
 $22x^2 - 7x - 12$