

Subtracting Quadratic Expressions (I)

Simplify each expression.

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

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

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

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

5. $-5(-8y^2 - 8y - 7) - 7(4y^2 - 2y - 4)$

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

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

8. $-2(4v^2 + 8v - 4) - 9(6v^2 - 4v + 3)$

9. $5(-2n^2 - 6n - 3) - 8(9n^2 - 2n - 3)$

10. $2(-w^2 - 4w + 4) - 4(7w^2 + 2w + 4)$

Subtracting Quadratic Expressions (I) Answers

Simplify each expression.

1. $8(6s^2 - s - 8) - 2(-5s^2 + s - 7)$
 $58s^2 - 10s - 50$

2. $3(5c^2 + 5c - 3) - 4(-c^2 - 5c - 5)$
 $19c^2 + 35c + 11$

3. $-7(-7v^2 - 6v - 6) - 2(7v^2 - 5v - 9)$
 $35v^2 + 52v + 60$

4. $3(-k^2 - 8k - 6) - 5(8k^2 + 6k + 8)$
 $-43k^2 - 54k - 58$

5. $-5(-8y^2 - 8y - 7) - 7(4y^2 - 2y - 4)$
 $12y^2 + 54y + 63$

6. $9(7y^2 + 8y - 5) - 9(6y^2 + 7y + 2)$
 $9y^2 + 9y - 63$

7. $5(-9p^2 - 9p + 6) - 2(p^2 - 2p - 6)$
 $-47p^2 - 41p + 42$

8. $-2(4v^2 + 8v - 4) - 9(6v^2 - 4v + 3)$
 $-62v^2 + 20v - 19$

9. $5(-2n^2 - 6n - 3) - 8(9n^2 - 2n - 3)$
 $-82n^2 - 14n + 9$

10. $2(-w^2 - 4w + 4) - 4(7w^2 + 2w + 4)$
 $-30w^2 - 16w - 8$