

Adding & Subtracting Quadratic Expressions (D)

Simplify each expression.

1. $7(-9f^2 - 2f - 8) + 9(4f^2 - 3f + 4)$

2. $5(-9a^2 - 3a + 1) - 4(-7a^2 - 6a - 5)$

3. $-5(9b^2 + 5b - 9) + 7(-4b^2 + 2b + 8)$

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

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

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

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

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

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

10. $6(-7c^2 - c - 5) - 7(2c^2 - 2c + 2)$

Adding & Subtracting Quadratic Expressions (D) Answers

Simplify each expression.

1. $7(-9f^2 - 2f - 8) + 9(4f^2 - 3f + 4)$
 $-27f^2 - 41f - 20$

2. $5(-9a^2 - 3a + 1) - 4(-7a^2 - 6a - 5)$
 $-17a^2 + 9a + 25$

3. $-5(9b^2 + 5b - 9) + 7(-4b^2 + 2b + 8)$
 $-73b^2 - 11b + 101$

4. $-4(-7p^2 + 7p - 2) - 6(5p + 9)$
 $28p^2 - 58p - 46$

5. $(7n^2 - 6n - 5) - 4(-8n^2 - 4n + 1)$
 $39n^2 + 10n - 9$

6. $-7(9z^2 + 9z + 3) + 3(-7z^2 + 6z)$
 $-84z^2 - 45z - 21$

7. $4(7c^2 - 8c + 6) + 2(4c^2 + 9c + 3)$
 $36c^2 - 14c + 30$

8. $-2(6q^2 + 7q + 4) - 4(-7q^2 + 8q - 2)$
 $16q^2 - 46q$

9. $-4(6w^2 - 2w + 1) + 2(5w^2 - 4w + 1)$
 $-14w^2 - 2$

10. $6(-7c^2 - c - 5) - 7(2c^2 - 2c + 2)$
 $-56c^2 + 8c - 44$