

Adding Quadratic Expressions (G)

Simplify each expression.

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

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

3. $(7p^2 + 2p + 2) + (-6p^2 - 2p + 7)$

4. $(9k + 5) + 4(k^2 + 5k + 7)$

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

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

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

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

9. $(7f^2 - 9f - 9) + (-7f^2 + f + 9)$

10. $3(-3w^2 + 8w - 4) + (7w^2 - 8w - 3)$

Adding Quadratic Expressions (G) Answers

Simplify each expression.

1. $5(d^2 - d - 8) + 4(7d^2 + 7d + 8)$
 $33d^2 + 23d - 8$

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

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

4. $(9k + 5) + 4(k^2 + 5k + 7)$
 $4k^2 + 29k + 33$

5. $-(8w^2 - 9w + 2) + 2(9w^2 - 3w - 5)$
 $10w^2 + 3w - 12$

6. $-4(-3c^2 + 2c - 4) + (7c^2 + 7c + 2)$
 $19c^2 - c + 18$

7. $3(4n^2 - 6n + 9) + 5(-4n^2 - 6n - 4)$
 $-8n^2 - 48n + 7$

8. $(3q^2 + 8q + 8) + (-8q^2 + 9q - 1)$
 $-5q^2 + 17q + 7$

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

10. $3(-3w^2 + 8w - 4) + (7w^2 - 8w - 3)$
 $-2w^2 + 16w - 15$