

Subtracting Quadratic Expressions (E)

Simplify each expression.

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

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

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

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

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

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

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

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

9. $7(-8d^2 + 8d - 7) - 3(-6d^2 + 5d + 1)$

10. $3(-p^2 + 7p - 8) - 5(2p^2 - 9p + 3)$

Subtracting Quadratic Expressions (E) Answers

Simplify each expression.

1. $-3(-4k^2 - 7k + 6) - 4(-3k^2 - 5k + 7)$
 $24k^2 + 41k - 46$

2. $-4(-2d^2 - 8d + 5) - 7(7d^2 - 9d - 5)$
 $-41d^2 + 95d + 15$

3. $-7(-5z^2 + 9z - 1) - 3(-2z^2 + 8z + 3)$
 $41z^2 - 87z - 2$

4. $-9(9r^2 - 4r - 5) - 7(-8r^2 + 9r - 7)$
 $-25r^2 - 27r + 94$

5. $-(4s^2 - 9s - 7) - 4(6s^2 - 4s + 1)$
 $-28s^2 + 25s + 3$

6. $7(7w^2 + 6w - 7) - 5(5w^2 + w + 5)$
 $24w^2 + 37w - 74$

7. $6(-5q^2 + 5q + 7) - 4(9q^2 + 6q - 2)$
 $-66q^2 + 6q + 50$

8. $5(-5p^2 + p - 3) - 2(-4p^2 + p + 4)$
 $-17p^2 + 3p - 23$

9. $7(-8d^2 + 8d - 7) - 3(-6d^2 + 5d + 1)$
 $-38d^2 + 41d - 52$

10. $3(-p^2 + 7p - 8) - 5(2p^2 - 9p + 3)$
 $-13p^2 + 66p - 39$