

Subtracting Quadratic Expressions (H)

Simplify each expression.

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

2. $(8b^2 - 2b + 1) - (-2b^2 + 2b + 5)$

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

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

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

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

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

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

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

10. $(-2g^2 - 5g - 7) - (-4g^2 - 6g - 7)$

Subtracting Quadratic Expressions (H) Answers

Simplify each expression.

1. $(-8d^2 + 7d + 2) - 2(-7d^2 + 2d - 1)$
 $6d^2 + 3d + 4$

2. $(8b^2 - 2b + 1) - (-2b^2 + 2b + 5)$
 $10b^2 - 4b - 4$

3. $-4(-2c^2 + 3c + 8) - (3c^2 + 6c - 6)$
 $5c^2 - 18c - 26$

4. $(-5p^2 - 2p - 9) - 5(7p^2 + 6p + 7)$
 $-40p^2 - 32p - 44$

5. $-6(9m^2 - 3m - 6) - (m^2 + 4m + 3)$
 $-55m^2 + 14m + 33$

6. $(7c^2 + 4c + 4) - 3(2c^2 + 5c + 1)$
 $c^2 - 11c + 1$

7. $(8q^2 + 2q - 9) - 2(-9q^2 - 9q - 9)$
 $26q^2 + 20q + 9$

8. $(-9p^2 - 9p - 9) - 3(-p^2 + 6p - 3)$
 $-6p^2 - 27p$

9. $(8q^2 + 2q + 1) - 4(6q^2 - q - 5)$
 $-16q^2 + 6q + 21$

10. $(-2g^2 - 5g - 7) - (-4g^2 - 6g - 7)$
 $2g^2 + g$