

Subtracting Quadratic Expressions (B)

Simplify each expression.

1. $(h^2 - 3h - 9) - (-9h^2 - 8h - 9)$

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

3. $(-4w^2 - 3w - 9) - (-w^2 - w - 8)$

4. $(-3z^2 - 3z - 1) - (-8z^2 - 4z - 8)$

5. $(9k^2 - 3k + 2) - (-3k^2 - 7k - 2)$

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

7. $(7f^2 - 7f + 5) - (8f^2 - 2f + 5)$

8. $(-9m^2 - 3m - 4) - (9m^2 - 5m + 1)$

9. $(-3q^2 - q + 5) - (2q^2 - 9q - 5)$

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

Subtracting Quadratic Expressions (B) Answers

Simplify each expression.

1. $(h^2 - 3h - 9) - (-9h^2 - 8h - 9)$
 $10h^2 + 5h$

2. $(4z^2 - 8z + 4) - (7z^2 + 9z + 5)$
 $-3z^2 - 17z - 1$

3. $(-4w^2 - 3w - 9) - (-w^2 - w - 8)$
 $-3w^2 - 2w - 1$

4. $(-3z^2 - 3z - 1) - (-8z^2 - 4z - 8)$
 $5z^2 + z + 7$

5. $(9k^2 - 3k + 2) - (-3k^2 - 7k - 2)$
 $12k^2 + 4k + 4$

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

7. $(7f^2 - 7f + 5) - (8f^2 - 2f + 5)$
 $-f^2 - 5f$

8. $(-9m^2 - 3m - 4) - (9m^2 - 5m + 1)$
 $-18m^2 + 2m - 5$

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

10. $(-2h^2 + 4) - (3h^2 - 7h + 4)$
 $-5h^2 + 7h$