

Subtracting Quadratic Expressions (B)

Simplify each expression.

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

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

3. $(-7y^2 + 5y - 6) - 7(y^2 + 5y - 6)$

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

5. $3(-6f^2 - 8f) - (-f^2 + 4f + 7)$

6. $-4(-4c^2 + 3c - 6) - 5(8c^2 + 7c - 2)$

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

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

9. $(-8t^2 - 2t - 8) - (4t^2 - 7t - 7)$

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

Subtracting Quadratic Expressions (B) Answers

Simplify each expression.

1. $-9(-d^2 - 5d + 8) - (d^2 + 7d + 7)$
 $8d^2 + 38d - 79$

2. $(6f^2 + 6f - 2) - 3(7f^2 - 7f - 4)$
 $-15f^2 + 27f + 10$

3. $(-7y^2 + 5y - 6) - 7(y^2 + 5y - 6)$
 $-14y^2 - 30y + 36$

4. $(-3h^2 + 2h - 3) - 9(-6h^2 - 6h + 2)$
 $51h^2 + 56h - 21$

5. $3(-6f^2 - 8f) - (-f^2 + 4f + 7)$
 $-17f^2 - 28f - 7$

6. $-4(-4c^2 + 3c - 6) - 5(8c^2 + 7c - 2)$
 $-24c^2 - 47c + 34$

7. $-6(-9h^2 + 6h + 5) - 3(-9h^2 - h)$
 $81h^2 - 33h - 30$

8. $8(5v^2 + 9v - 2) - 5(-3v^2 - 4v - 5)$
 $55v^2 + 92v + 9$

9. $(-8t^2 - 2t - 8) - (4t^2 - 7t - 7)$
 $-12t^2 + 5t - 1$

10. $-5(-2r^2 - 7r - 3) - (-9r^2 + 9r + 3)$
 $19r^2 + 26r + 12$