

Adding & Subtracting Quadratic Expressions (G)

Simplify each expression.

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

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

3. $(x^2 + 3x + 1) + (9x^2 + x + 1)$

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

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

6. $(-w^2 - 2w + 6) - 4(w^2 - w + 7)$

7. $8(-6s^2 + 2s + 5) - 5(-5s^2 - 7s - 9)$

8. $(-4z^2 + 7z + 6) + 7(z^2 - 2z - 6)$

9. $(-8r^2 + r - 1) - (-2r^2 - 4r + 8)$

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

Adding & Subtracting Quadratic Expressions (G) Answers

Simplify each expression.

1. $-8(-2q^2 + 6q + 4) - (-8q^2 + q + 8)$
 $24q^2 - 49q - 40$

2. $(5z^2 - 3z - 7) + 5(-5z^2 - 9z - 9)$
 $-20z^2 - 48z - 52$

3. $(x^2 + 3x + 1) + (9x^2 + x + 1)$
 $10x^2 + 4x + 2$

4. $(-f^2 - 8f) + 6(6f^2 + 8f - 2)$
 $35f^2 + 40f - 12$

5. $2(-7x^2 + 8x + 1) + (-7x^2 - x - 7)$
 $-21x^2 + 15x - 5$

6. $(-w^2 - 2w + 6) - 4(w^2 - w + 7)$
 $-5w^2 + 2w - 22$

7. $8(-6s^2 + 2s + 5) - 5(-5s^2 - 7s - 9)$
 $-23s^2 + 51s + 85$

8. $(-4z^2 + 7z + 6) + 7(z^2 - 2z - 6)$
 $3z^2 - 7z - 36$

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

10. $(t^2 + 4t - 3) + (t^2 + 6t - 9)$
 $2t^2 + 10t - 12$