

Subtracting Quadratic Expressions (J)

Simplify each expression.

1. $8(-m^2 - 6m + 5) - (6m^2 - 7m - 5)$

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

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

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

5. $(3t^2 - 2t + 5) - 3(t^2 - t - 4)$

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

7. $6(7p^2 + 8p + 9) - 7(-3p^2 + 3p + 8)$

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

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

10. $-8(5w^2 + 7w + 2) - 7(-w^2 + 5w - 4)$

Subtracting Quadratic Expressions (J) Answers

Simplify each expression.

1. $8(-m^2 - 6m + 5) - (6m^2 - 7m - 5)$
 $-14m^2 - 41m + 45$

2. $(9d^2 + 9d + 7) - (7d^2 - 8d + 8)$
 $2d^2 + 17d - 1$

3. $(7w^2 - 6w - 2) - (-w^2 + 3w - 9)$
 $8w^2 - 9w + 7$

4. $8(3z^2 + z + 4) - (-2z^2 - 8z + 6)$
 $26z^2 + 16z + 26$

5. $(3t^2 - 2t + 5) - 3(t^2 - t - 4)$
 $t + 17$

6. $7(7t^2 + 3t + 8) - 5(-4t^2 - 2t + 8)$
 $69t^2 + 31t + 16$

7. $6(7p^2 + 8p + 9) - 7(-3p^2 + 3p + 8)$
 $63p^2 + 27p - 2$

8. $6(4f^2 - 5f - 4) - 2(-f^2 - 5f + 7)$
 $26f^2 - 20f - 38$

9. $(x^2 + 5x - 6) - (-3x^2 - x + 4)$
 $4x^2 + 6x - 10$

10. $-8(5w^2 + 7w + 2) - 7(-w^2 + 5w - 4)$
 $-33w^2 - 91w + 12$