

Adding Quadratic Expressions (F)

Simplify each expression.

1. $(-5q^2 - 2q - 1) + (-9q^2 - 3q + 5)$

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

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

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

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

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

7. $(7q^2 - 9q + 6) + (4q^2 + 6q - 3)$

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

9. $(9c^2 - 3c + 5) + (-9c^2 - 9c - 1)$

10. $-6(4y^2 + 4y - 8) + 8(-2y^2 - 6y - 7)$

Adding Quadratic Expressions (F) Answers

Simplify each expression.

1. $(-5q^2 - 2q - 1) + (-9q^2 - 3q + 5)$
 $-14q^2 - 5q + 4$

2. $(7s^2 - 2s + 4) + 6(-s^2 + 8s + 6)$
 $s^2 + 46s + 40$

3. $(7b^2 - 3b - 2) + 8(-8b^2 + 3b - 6)$
 $-57b^2 + 21b - 50$

4. $4(2r^2 + 6r + 3) + (6r^2 - r + 8)$
 $14r^2 + 23r + 20$

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

6. $(-9z^2 - 6z - 7) + 6(-6z^2 + 6z - 8)$
 $-45z^2 + 30z - 55$

7. $(7q^2 - 9q + 6) + (4q^2 + 6q - 3)$
 $11q^2 - 3q + 3$

8. $(-6d^2 - 3d - 8) + (-d^2 - 2d - 3)$
 $-7d^2 - 5d - 11$

9. $(9c^2 - 3c + 5) + (-9c^2 - 9c - 1)$
 $-12c + 4$

10. $-6(4y^2 + 4y - 8) + 8(-2y^2 - 6y - 7)$
 $-40y^2 - 72y - 8$