

Adding Quadratic Expressions (G)

Simplify each expression.

1. $3(-6s^2 - 7s + 7) + 4(4s^2 - 2s + 7)$

2. $8(7x^2 - 9x + 8) + 2(4x^2 + 6x + 4)$

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

4. $-6(-9y^2 + y + 7) + 2(5y^2 + 3y + 7)$

5. $-(-b^2 - 2b - 1) + 3(3b^2 - 3b - 6)$

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

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

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

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

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

Adding Quadratic Expressions (G) Answers

Simplify each expression.

1. $3(-6s^2 - 7s + 7) + 4(4s^2 - 2s + 7)$
 $-2s^2 - 29s + 49$

2. $8(7x^2 - 9x + 8) + 2(4x^2 + 6x + 4)$
 $64x^2 - 60x + 72$

3. $(-4z^2 - 3z - 2) + 5(-z^2 + 7z - 6)$
 $-9z^2 + 32z - 32$

4. $-6(-9y^2 + y + 7) + 2(5y^2 + 3y + 7)$
 $64y^2 - 28$

5. $-(-b^2 - 2b - 1) + 3(3b^2 - 3b - 6)$
 $10b^2 - 7b - 17$

6. $9(-5z^2 - 2z - 9) + 2(6z^2 + 3z - 4)$
 $-33z^2 - 12z - 89$

7. $-5(-2r^2 - 4r + 7) + 3(r^2 + r + 8)$
 $13r^2 + 23r - 11$

8. $-8(-3x^2 - 2x - 4) + 3(-8x^2 + 9x + 4)$
 $43x + 44$

9. $2(-8s^2 - 2s + 1) + 5(-5s^2 - 8s - 6)$
 $-41s^2 - 44s - 28$

10. $3(-9d^2 + 9d - 5) + 3(-4d^2 + 5d - 6)$
 $-39d^2 + 42d - 33$