

Subtracting Quadratic Expressions (G)

Simplify each expression.

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

$$2. \ -4(5w^2 + 5w + 6) - (-3w^2 - 8w + 2)$$

$$3. \ -7(3q^2 + 8q + 5) - (-3q^2 + 5q - 7)$$

$$4. \ -8(-8c^2 + 8c + 2) - (8c^2 - 4c - 2)$$

$$5. \ 7(-8b^2 + 7b - 6) - (b^2 - b - 5)$$

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

$$7. \ -7(-4s^2 - 6s + 3) - 8(-s^2 + 9s + 4)$$

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

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

$$10. \ 3(-9r^2 - 6r - 8) - (-2r^2 - 2r - 6)$$

Subtracting Quadratic Expressions (G) Answers

Simplify each expression.

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

$$\textcolor{red}{-30s^2 - 34s + 40}$$

$$2. \ -4(5w^2 + 5w + 6) - (-3w^2 - 8w + 2)$$

$$\textcolor{red}{-17w^2 - 12w - 26}$$

$$3. \ -7(3q^2 + 8q + 5) - (-3q^2 + 5q - 7)$$

$$\textcolor{red}{-18q^2 - 61q - 28}$$

$$4. \ -8(-8c^2 + 8c + 2) - (8c^2 - 4c - 2)$$

$$\textcolor{red}{56c^2 - 60c - 14}$$

$$5. \ 7(-8b^2 + 7b - 6) - (b^2 - b - 5)$$

$$\textcolor{red}{-57b^2 + 50b - 37}$$

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

$$\textcolor{red}{-6s^2 + 7s - 18}$$

$$7. \ -7(-4s^2 - 6s + 3) - 8(-s^2 + 9s + 4)$$

$$\textcolor{red}{36s^2 - 30s - 53}$$

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

$$\textcolor{red}{-4x^2 - 13x + 28}$$

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

$$\textcolor{red}{-10x^2 - 2x}$$

$$10. \ 3(-9r^2 - 6r - 8) - (-2r^2 - 2r - 6)$$

$$\textcolor{red}{-25r^2 - 16r - 18}$$