

# Adding & Subtracting Quadratic Expressions (E)

Simplify each expression.

$$1. \ 3(-2w^2 + 9w + 3) - (8w^2 - 4w + 1)$$

$$2. \ -2(3d^2 + 8d + 9) + (3d^2 - d - 7)$$

$$3. \ (-8h^2 + 4h + 3) - 6(-7h^2 - 6h + 1)$$

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

$$5. \ 3(7y^2 + 7y + 8) - (4y^2 + 3y - 9)$$

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

$$7. \ (-4m^2 - 9m - 1) + 7(-9m^2 - 9m - 5)$$

$$8. \ (5v^2 - 8v + 1) + (8v^2 - v + 2)$$

$$9. \ (6d^2 + 7d + 2) + (-5d^2 + 3d + 1)$$

$$10. \ 4(s^2 + 3s - 5) + (4s^2 + 2s + 1)$$

# Adding & Subtracting Quadratic Expressions (E) Answers

Simplify each expression.

$$1. \ 3(-2w^2 + 9w + 3) - (8w^2 - 4w + 1)$$

$$\textcolor{red}{-14w^2 + 31w + 8}$$

$$2. \ -2(3d^2 + 8d + 9) + (3d^2 - d - 7)$$

$$\textcolor{red}{-3d^2 - 17d - 25}$$

$$3. \ (-8h^2 + 4h + 3) - 6(-7h^2 - 6h + 1)$$

$$\textcolor{red}{34h^2 + 40h - 3}$$

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

$$\textcolor{red}{-7x^2 - 4x - 5}$$

$$5. \ 3(7y^2 + 7y + 8) - (4y^2 + 3y - 9)$$

$$\textcolor{red}{17y^2 + 18y + 33}$$

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

$$\textcolor{red}{-36w^2 + 48w - 49}$$

$$7. \ (-4m^2 - 9m - 1) + 7(-9m^2 - 9m - 5)$$

$$\textcolor{red}{-67m^2 - 72m - 36}$$

$$8. \ (5v^2 - 8v + 1) + (8v^2 - v + 2)$$

$$\textcolor{red}{13v^2 - 9v + 3}$$

$$9. \ (6d^2 + 7d + 2) + (-5d^2 + 3d + 1)$$

$$\textcolor{red}{d^2 + 10d + 3}$$

$$10. \ 4(s^2 + 3s - 5) + (4s^2 + 2s + 1)$$

$$\textcolor{red}{8s^2 + 14s - 19}$$