

Simplifying Quadratic Expressions (B)

Simplify each expression by combining like terms.

$$1. \ 7g^2 - 6g + 7 + 7 - 2 + 8g + 5g^2 - 3g$$

$$2. \ 4x^2 - x + 8 - 4x + 9 - 7x^2 - 4x + 1$$

$$3. \ -6p + 7p^2 + 2p + 5 - 9p^2 - 8p^2 + 3 - 4$$

$$4. \ -6 + 3d^2 - d - 2d - 1 - 4d - d^2 + 4d^2$$

$$5. \ -3j^2 - 6 - 8j - 4 - 8j + 7j - 6j^2 + 7j^2$$

$$6. \ 6q^2 + 1 - 5 - 9q^2 + 7 - 8q^2 + 5q - 5q$$

$$7. \ -9x + x^2 + 9x^2 - 7x^2 + 7x + 8x - 9x - 8x^2$$

$$8. \ 6w^2 - 7w + 4 - 5w^2 - 4w^2 + 5w + 4w + 4w^2$$

$$9. \ 6g - 7g - 4g^2 + 8g^2 - 7g - 8g^2 + 6 + 4$$

$$10. \ -2g + 5g - 8g^2 + 3 + 5 + 6g^2 + 5 - g^2$$

Simplifying Quadratic Expressions (B) Answers

Simplify each expression by combining like terms.

$$\begin{aligned} 1. \quad & 7g^2 - 6g + 7 + 7 - 2 + 8g + 5g^2 - 3g \\ & = 12g^2 - g + 12 \end{aligned}$$

$$\begin{aligned} 2. \quad & 4x^2 - x + 8 - 4x + 9 - 7x^2 - 4x + 1 \\ & = -3x^2 - 9x + 18 \end{aligned}$$

$$\begin{aligned} 3. \quad & -6p + 7p^2 + 2p + 5 - 9p^2 - 8p^2 + 3 - 4 \\ & = -10p^2 - 4p + 4 \end{aligned}$$

$$\begin{aligned} 4. \quad & -6 + 3d^2 - d - 2d - 1 - 4d - d^2 + 4d^2 \\ & = 6d^2 - 7d - 7 \end{aligned}$$

$$\begin{aligned} 5. \quad & -3j^2 - 6 - 8j - 4 - 8j + 7j - 6j^2 + 7j^2 \\ & = -2j^2 - 9j - 10 \end{aligned}$$

$$\begin{aligned} 6. \quad & 6q^2 + 1 - 5 - 9q^2 + 7 - 8q^2 + 5q - 5q \\ & = -11q^2 + 3 \end{aligned}$$

$$\begin{aligned} 7. \quad & -9x + x^2 + 9x^2 - 7x^2 + 7x + 8x - 9x - 8x^2 \\ & = -5x^2 - 3x \end{aligned}$$

$$\begin{aligned} 8. \quad & 6w^2 - 7w + 4 - 5w^2 - 4w^2 + 5w + 4w + 4w^2 \\ & = w^2 + 2w + 4 \end{aligned}$$

$$\begin{aligned} 9. \quad & 6g - 7g - 4g^2 + 8g^2 - 7g - 8g^2 + 6 + 4 \\ & = -4g^2 - 8g + 10 \end{aligned}$$

$$\begin{aligned} 10. \quad & -2g + 5g - 8g^2 + 3 + 5 + 6g^2 + 5 - g^2 \\ & = -3g^2 + 3g + 13 \end{aligned}$$