# Simplifying Quadratic Expressions (E)

## Simplify each expression by combining like terms.

1. $-2b^2 - 2 + b^2 + 5 - 2b^2 + 2b^2 + 6$

2. $6h^2 + 5h^2 - 4h + 3 - 4h^2 + 9 - 5h^2$

3. $8a + 5 - 5a^2 + 9a + 6a - a^2 - 5a^2$

4. $7p - 4 + 7p^2 - 2 - 4p^2 + 3p^2 + 6$

5. $2c - 2 - 6 + 5c^2 - 7c^2 + 8c^2 + 2$

6. $-2 - 7q^2 - 6q^2 + 7 + 5q - 2q^2 - 2$

7. $7p + 5p + 2p^2 + 9p^2 + p - 4 + 9p^2$

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

9. $r^2 + 4r^2 + r - 9r^2 - r + 6r + 7r^2$

10. $9k^2 + 4k - 5k + 8k^2 - 3k^2 + 5k - 3k^2$

### Simplify each expression by combining like terms.

1. $-2b^2 - 2 + b^2 + 5 - 2b^2 + 2b^2 + 6$
   $= -b^2 + 9$

2. $6h^2 + 5h^2 - 4h + 3 - 4h^2 + 9 - 5h^2$
   $= 2h^2 - 4h + 12$

3. $8a + 5 - 5a^2 + 9a + 6a - a^2 - 5a^2$
   $= -11a^2 + 23a + 5$

4. $7p - 4 + 7p^2 - 2 - 4p^2 + 3p^2 + 6$
   $= 6p^2 + 7p$

5. $2c - 2 - 6 + 5c^2 - 7c^2 + 8c^2 + 2$
   $= 6c^2 + 2c - 6$

6. $-2 - 7q^2 - 6q^2 + 7 + 5q - 2q^2 - 2$
   $= -15q^2 + 5q + 3$

7. $7p + 5p + 2p^2 + 9p^2 + p - 4 + 9p^2$
   $= 20p^2 + 13p - 4$

8. $-3 - 6z + 7 - 1 - 8 + 5z^2 + 7z^2$
   $= 12z^2 - 6z - 5$

9. $r^2 + 4r^2 + r - 9r^2 - r + 6r + 7r^2$
   $= 3r^2 + 6r$

10. $9k^2 + 4k - 5k + 8k^2 - 3k^2 + 5k - 3k^2$
    $= 11k^2 + 4k$