# Simplifying Quadratic Expressions (H)

Simplify each expression by combining like terms.

1. $4d - 6d^2 - 6d^2 - 5d - 8d + 4d^2 - 4$

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

3. $c^2 + 8c^2 + 3c + 5c - 9 + 3c^2 + 3c^2$

4. $5 + f^2 + f^2 - 3f - f^2 - 1 + f^2$

5. $-3 + 5 + 2x^2 + 3 + 9 + 5x - 8$

6. $-9w^2 - 7 - 4 - 4w - 6w^2 - 9w^2 - 2w^2$

7. $-4v + 7v^2 + 4v^2 + v^2 + 4v - 3v^2 - 5v$

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

9. $-9 + 8s^2 + 2s^2 + 2 + 2 - 6s^2 + 6s^2$

10. $-6g^2 - 4g^2 + 6g^2 - 2 + 6g^2 - 7g + 5g$

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# Simplifying Quadratic Expressions (H) Answers

### Simplify each expression by combining like terms.

1. $4d - 6d^2 - 6d^2 - 5d - 8d + 4d^2 - 4$
   $= -8d^2 - 9d - 4$

2. $-6t^2 - 3t - 7t^2 - 3t^2 + 7t^2 - 6t^2 - 4$
   $= -15t^2 - 3t - 4$

3. $c^2 + 8c^2 + 3c + 5c - 9 + 3c^2 + 3c^2$
   $= 15c^2 + 8c - 9$

4. $5 + f^2 + f^2 - 3f - f^2 - 1 + f^2$
   $= 2f^2 - 3f + 4$

5. $-3 + 5 + 2x^2 + 3 + 9 + 5x - 8$
   $= 2x^2 + 5x + 6$

6. $-9w^2 - 7 - 4 - 4w - 6w^2 - 9w^2 - 2w^2$
   $= -26w^2 - 4w - 11$

7. $-4v + 7v^2 + 4v^2 + v^2 + 4v - 3v^2 - 5v$
   $= 9v^2 - 5v$

8. $6p - 3p^2 - 9p^2 - 9p^2 + p - 4p^2 - 7p^2$
   $= -32p^2 + 7p$

9. $-9 + 8s^2 + 2s^2 + 2 + 2 - 6s^2 + 6s^2$
   $= 10s^2 - 5$

10. $-6g^2 - 4g^2 + 6g^2 - 2 + 6g^2 - 7g + 5g$
    $= 2g^2 - 2g - 2$