Simplifying Quadratic Expressions (A)

Simplify each expression by combining like terms.

1. $-3v^2 + 9 + 5v^2 - 9v^2 + 8$

2. $6t^2 - 4 + 7t^2 + 1 + 5t$

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

4. $-9d + 3 + 7d^2 - 3 - 9d$

5. $6 + 9h - 6h^2 + 5h^2 + 8h^2$

6. $-9p^2 - 9p^2 - 2p^2 - 2 - 5p$

7. $1 - 6 + 4 + 4 - 7f^2$

8. $2s^2 - 4s^2 + 4s - 8s^2 - 7s^2$

9. $5z^2 + 8z^2 + 4 - 5z^2 + 2z^2$

10. $-8 + 7 - 3q^2 - 3q + 5q^2$

Simplify each expression by combining like terms.

1. $-3v^2 + 9 + 5v^2 - 9v^2 + 8$
   $= -7v^2 + 17$

2. $6t^2 - 4 + 7t^2 + 1 + 5t$
   $= 13t^2 + 5t - 3$

3. $4 + 7a^2 - 3a^2 + 5a + a$
   $= 4a^2 + 6a + 4$

4. $-9d + 3 + 7d^2 - 3 - 9d$
   $= 7d^2 - 18d$

5. $6 + 9h - 6h^2 + 5h^2 + 8h^2$
   $= 7h^2 + 9h + 6$

6. $-9p^2 - 9p^2 - 2p^2 - 2 - 5p$
   $= -20p^2 - 5p - 2$

7. $1 - 6 + 4 + 4 - 7f^2$
   $= -7f^2 + 3$

8. $2s^2 - 4s^2 + 4s - 8s^2 - 7s^2$
   $= -17s^2 + 4s$

9. $5z^2 + 8z^2 + 4 - 5z^2 + 2z^2$
   $= 10z^2 + 4$

10. $-8 + 7 - 3q^2 - 3q + 5q^2$
    $= 2q^2 - 3q - 1$