Simplifying Quadratic Expressions (A)

Simplify each expression by combining like terms.

1. $-5 - 5d^2 + 4d^2 + 9d^2 + 7$

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

3. $-4 - 5b^2 - 1 - 2b - 6b^2$

4. $-2c^2 - 4 - 2 - 4c^2 + 5c - 1$

5. $8 - 7r + r^2 + 1 - 3r^2 - 8r$

6. $8 - 5x^2 + 9x - 1 - 4 - 2x^2 - 7x + x - 8x + 7x^2$

7. $4g - 4 - 3g^2 + 4g - 2 - g^2$

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

9. $-3 - 5p - 6p^2 - 8p^2 + 8p - 1 + 2 - 3$

10. $6s^2 - 2s^2 - 8s + 7 + 3 - 4 - 5 - 5 + 8s$

Simplify each expression by combining like terms.

1. $-5 - 5d^2 + 4d^2 + 9d^2 + 7$
   $= 8d^2 + 2$

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

3. $-4 - 5b^2 - 1 - 2b - 6b^2$
   $= -11b^2 - 2b - 5$

4. $-2c^2 - 4 - 2 - 4c^2 + 5c - 1$
   $= -6c^2 + 5c - 7$

5. $8 - 7r + r^2 + 1 - 3r^2 - 8r$
   $= -2r^2 - 15r + 9$

6. $8 - 5x^2 + 9x - 1 - 4 - 2x^2 - 7x + x - 8x + 7x^2$
   $= -5x + 3$

7. $4g - 4 - 3g^2 + 4g - 2 - g^2$
   $= -4g^2 + 8g - 6$

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

9. $-3 - 5p - 6p^2 - 8p^2 + 8p - 1 + 2 - 3$
   $= -14p^2 + 3p - 5$

10. $6s^2 - 2s^2 - 8s + 7 + 3 - 4 - 5 - 5 + 8s$
    $= 4s^2 - 4$