Simplifying Quadratic Expressions (G)

Simplify each expression by combining like terms.

1. $n^2 - 7n^2 - 7n + 5n^2 + 5n + 5n^2 - 5$

2. $4 + 3x^2 + 5x^2 + 2 + 3 + 3x + 6x$

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

4. $7 + 7p^2 - 1 + p^2 - 4p^2 - 3p + 4p^2$

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

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

7. $-1 + 8f - 5f^2 + 2 + 2f^2 + 8 - 5$

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

9. $8r - 5 + 7 - 8r^2 - 7 + 7r - r$

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

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Simplify each expression by combining like terms.

1. $n^2 - 7n^2 - 7n + 5n^2 + 5n + 5n^2 - 5$
   $= 4n^2 - 2n - 5$

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

3. $-5 - 8a^2 + a^2 - 8a^2 - 8a^2 + 6a^2 - 2a$
   $= -17a^2 - 2a - 5$

4. $7 + 7p^2 - 1 + p^2 - 4p^2 - 3p + 4p^2$
   $= 8p^2 - 3p + 6$

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

6. $-3p - 2p^2 + 8p + 9 + 6p^2 - 8p - 8$
   $= 4p^2 - 3p + 1$

7. $-1 + 8f - 5f^2 + 2 + 2f^2 + 8 - 5$
   $= -3f^2 + 8f + 4$

8. $-5v^2 - 6v - 9 + 4v^2 - 7v^2 - 7v^2 - 7$
   $= -15v^2 - 6v - 16$

9. $8r - 5 + 7 - 8r^2 - 7 + 7r - r$
   $= -8r^2 + 14r - 5$

10. $h - 6 + 6 + 6h^2 + 8 - 2h^2 + 9$
    $= 4h^2 + h + 17$