Adding & Subtracting Quadratic Expressions (H)

Simplify each expression.

1. $-7(4z^2 - 3z - 8) + (-9z^2 - 9z - 6)$

2. $(-9k^2 + 3k - 1) - (-7k^2 - k + 1)$

3. $(-2f^2 - 5f - 6) - (-6f^2 - 3f + 8)$

4. $9(3n^2 - 5n - 8) - 8(-n^2 + 2n - 8)$

5. $(-2n^2 - n + 3) + (-5n^2 + 9n + 3)$

6. $(2w^2 - 4w + 5) - 9(3w^2 + 3w + 7)$

7. $(5a^2 - 4a - 3) - (-8a^2 + 5a - 2)$

8. $(-3h^2 + 5h + 2) + 6(-4h^2 + 8h - 4)$

9. $(2q^2 - 3q + 5) + 7(-4q - 2)$

10. $(5w^2 + 8w - 5) + 7(-w^2 + 4w - 4)$

Simplify each expression.

1. $-7(4z^2 - 3z - 8) + (-9z^2 - 9z - 6)$
   $-37z^2 + 12z + 50$

2. $(-9k^2 + 3k - 1) - (-7k^2 - k + 1)$
   $-2k^2 + 4k - 2$

3. $(-2f^2 - 5f - 6) - (-6f^2 - 3f + 8)$
   $4f^2 - 2f - 14$

4. $9(3n^2 - 5n - 8) - 8(-n^2 + 2n - 8)$
   $35n^2 - 61n - 8$

5. $(-2n^2 - n + 3) + (-5n^2 + 9n + 3)$
   $-7n^2 + 8n + 6$

6. $(2w^2 - 4w + 5) - 9(3w^2 + 3w + 7)$
   $-25w^2 - 31w - 58$

7. $(5a^2 - 4a - 3) - (-8a^2 + 5a - 2)$
   $13a^2 - 9a - 1$

8. $(-3h^2 + 5h + 2) + 6(-4h^2 + 8h - 4)$
   $-27h^2 + 53h - 22$

9. $(2q^2 - 3q + 5) + 7(-4q - 2)$
   $2q^2 - 31q - 9$

10. $(5w^2 + 8w - 5) + 7(-w^2 + 4w - 4)$
    $-2w^2 + 36w - 33$