

## Multiplying a Binomial by a Trinomial (H)

Simplify each expression.

1.  $(-2x^2 - 2x)(8x^2 + 4x + 7)$

2.  $(6k^4 + 9k^3)(3k^2 - 3k + 3)$

3.  $(2q^3 + 6q^2)(3q^3 - 2q^2 + 8q)$

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

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

6.  $(v - 7)(5v^5 - 8v^4 - 6v^3)$

7.  $(3k + 1)(-7k^3 + 9k^2 + 5k)$

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

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

10.  $(4n^3 - 3n^2)(-4n^5 + 2n^4 + 2n^3)$