

Multiplying a Binomial by Two Trinomials (I)

Simplify each expression.

1. $(y^4 + y^3)(-9y^4 + 8y^3 - y^2)(3y^2 - 2y + 4)$

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

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

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

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