

Multiplying a Binomial by Two Trinomials (D)

Simplify each expression.

1. $(7y^4 + 3y^3)(-2y^2 - y - 6)(-7y^3 - 3y^2 + 7y)$

2. $(8x^5 + 8x^4)(-5x^4 + 6x^3 + 3x^2)(-4x^5 + 7x^4 + 3x^3)$

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

4. $(3a - 1)(-5a^3 + 2a^2 - 2a)(-4a^3 - 7a^2 + 6a)$

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