

Multiplying Monomials and Polynomials (I)

Simplify each expression.

1. $(-8x^4 + 7x^3)(7x^4 - 8x^3 + 7x^2)$

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

3. $-2p^2(3p^5 - 2p^4)$

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

5. $(3t^4 + t^3)(5t^5 + 2t^4)$

6. $(z - 1)(5z^2 + 8z)$

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

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

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

10. $9f^3(3f^3 + 4f^2 + 9f)$