

Practice Test for Polynomial Unit

Learning Objectives:

- Simplify expressions using exponents.
- Identify whether an equation is an identity.
- Add and subtract polynomial functions.
- Multiply polynomial functions.

Question #	Learning Objective	Know It	Feel Unsure		Right	Wrong	Simple Mistake	Need to Study
1	A							
2	B							
3	C							
4	D							

- Simplify: $(3x^2yz^3)^2(-4xyz^5)^3$
- Which of these equations are identities? How do you know?
a) $(x + 3)^2 = x^2 + 9$ b) $x^2 - 9 = (x + 3)(x - 3)$ c) $2(x - 3) = 2x + 6$
- Given $f(x) = 5x^4 - 3x^3 + 5x - 3$ and $g(x) = 2x^4 + 6x^2 - 7x - 3$, find $f(x) + g(x)$ and $f(x) - g(x)$.
- Given $f(x) = 3x + 4$ and $g(x) = x^2 - 3x - 7$, find $f(x) \cdot g(x)$.