



## Polynomial Operations

### Today's Standard

HSA.APR.A1 - Understand that polynomials form a system analogous to the integers, namely, they are closed under the operations of addition, subtraction, and multiplication; add, subtract, and multiply polynomials.

### Real-World Applications for this Standard

Calculating profit in business using polynomial revenue and cost functions; Modeling population growth in biology; Engineering and physics problems involving polynomial equations; Predicting trends in data analysis; Designing computer graphics

### Today I Learned

Today, we learned about polynomials and how we can add, subtract, and multiply them. Polynomials are like numbers that can be added, subtracted, and multiplied to get new numbers.

### Common Stumbling Blocks

Sometimes, kids think that you can't subtract or multiply polynomials and get another polynomial. Also, they might mix up the rules for polynomials with other math rules.

### Quiz Me

- What is a polynomial?
- Can you add polynomials?
- What happens when you subtract polynomials?
- Can you multiply polynomials?
- What do you get when you add two polynomials?

### Help Me

Polynomials are used in many real-world situations, like calculating profits in business or predicting trends in data. By learning how to add, subtract, and multiply polynomials, we can solve many different problems.