



Combining Function Types

Today's Standard

HSF.BF.A1b - Combine standard function types using arithmetic operations. For example, build a function that models the temperature of a cooling body by adding a constant function to a decaying exponential, and relate these functions to the model.

Real-World Applications for this Standard

Modeling temperature changes in cooling bodies; Predicting population growth with logistic functions; Financial forecasting using compound interest; Mixing sound waves in audio engineering

Today I Learned

Today, we learned how to combine different types of math functions to understand real-world problems better. For example, we can use math to predict how quickly something cools down.

Common Stumbling Blocks

Some students think that combining two functions always gives the same type of function, but that's not true. Others think the order doesn't matter, but it does.

Quiz Me

- What is a function?
- Can you add two functions together?
- What happens when you combine different types of functions?
- Does the order of combining functions matter?
- Can you give an example of a real-world problem using combined functions?

Help Me

Combining functions helps us solve real-world problems. For example, we can predict how fast something cools down by adding two types of functions together. Understanding this helps us in science and everyday life.