Average Rate of Change

Today's Standard

HSF.IF.B6 - Calculate and interpret the average rate of change of a function (presented symbolically or as a table) over a specified interval. Estimate the rate of change from a graph.*

Cues	Notes
Average Rate of Change Interval Slope Graph Interpretation Real-World Applications	Average rate of change is the change in the value of a function over a specified interval. It can be calculated using the formula (f(b) - f(a)) / (b - a) where 'a' and 'b' are the interval endpoints. The slope of a secant line represents the average rate of change over an interval. Graphs and tables can be used to estimate and calculate the average rate of change. Understanding this concept is essential for advanced topics in calculus and various real-world applications.

Summary

The average rate of change measures how a function's value changes over a specified interval. It is calculated using the slope formula and can be interpreted from graphs and tables. Mastery of this concept is foundational for advanced mathematics and real-world problem-solving.