3.4 Derivative Applications

Standards: MCD1c MCD1e

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old Slopes of tangent line

To find the slope of the tangent of a function at one point, one must:

> 1. Find the derivative of the function 2. Substitute the point lints the derivative.

Thow Derivative Applications Velocity/Acceleration Relative to Derivative Let's call the initial function, $f(x) \rightarrow$ the "position function". Acceleration is the rate at which an object speeds up & sliws diwn. The rate of charge of the velocity function is the Alexandren water and the matter of sorthoenard real attices water and a structure of the charge of the contraction note: acceleration is positive (speeding up), acceleration is negative (slowing down)

