Velocity and Acceleration: object moving on a line — how to test for when it is stopped; moving to left or right; speeding up or slowing down.

Curve Sketching: intervals where f(x) is increasing or decreasing, local max/min, intervals where concave up or down, inflection points.

Definite Integral: Riemann sums (upper, lower, right, left)

Properties of Def. integral: relation to area, odd or even f(x) over symmetric interval.


\[
\frac{d}{dx} \int_a^x f(t) dt = f(x) \cdot \frac{dx}{dt}
\]

Area Between Curves

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