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The Fundamental Theorem of Calculus

You have now been introduced to the two major branches of calculus: differential calculus (introduced with the tangent line problem) and integral calculus (introduced with the area problem). So far, these two problems might seem unrelated---but there is a very close connection.

The connection was discovered in description of the local sectors of the	decen Memory and Gottfried Leibniz and is stated
in the Double presented The summer of	• •
Informally, the theorem states that	integration are inverse operations,
in the same sense that division ar Add Note	erations. To see how Newton and
Leibniz might have anticipated the Rost Test	proximations shown in Figure 4.28.
The slope of the tangent line was Remove Highligh	Δ.z (the slope of the secant line).
Similarly, the area of a region and Add Flashard	e product $\Delta y \Delta x$ (the area of a
rectangle). So, at least in the prim	operations of differentiation and
definite integration appear to have	same sense that division and
multiplication are inverse operati	on of Calculus states that the limit

processes (used to define the derivative and definite integral) preserve this inverse relationship.



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