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The derivative of the sum of a function  $f$  and a function  $g$  is the same as the sum of the derivative of  $f$  and the derivative of  $g$ . 3.4: Derivatives as Rates of Change In this section we look at some applications of the derivative by focusing on the interpretation of the derivative as the rate of change of a function.

### 3: Derivatives - Mathematics LibreTexts

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Outstanding text for graduate students and researchers proposes improvements to existing algorithms, extends their related mathematical theories, and offers details on new algorithms for approximating local and global minima. 1973 edition.

**Algorithms for Minimization Without Derivatives**

(a) By recognizing the limit to be a derivative. (b) By rationalizing. 9. Evaluate the following limit by recognizing the limit to be a derivative:  $\lim_{x \rightarrow \frac{\pi}{2}} \frac{\sin x - \sqrt{2}}{x - \frac{\pi}{4}}$  The Integral as a Limit of Sums In this section, we shall need the notion of a limit of a sequence. (See your calculus text for examples and discussion.)

**13 Limits and the Foundations of Calculus**

Calculus Without Limits The Velocity at an Instant Circular Motion A Review of Trigonometry A Thousand Points of Light Computing in Calculus Derivatives The Derivative of a Function Powers and Polynomials The Slope and the Tangent Line Derivative of the Sine and Cosine The Product and Quotient and Power Rules ...

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