

Mathematics for Thermodynamics

Information

$$\lim_{\Delta x \rightarrow 0} \frac{\Delta y}{\Delta x} = \frac{dy}{dx}$$

$$y = f(x)$$

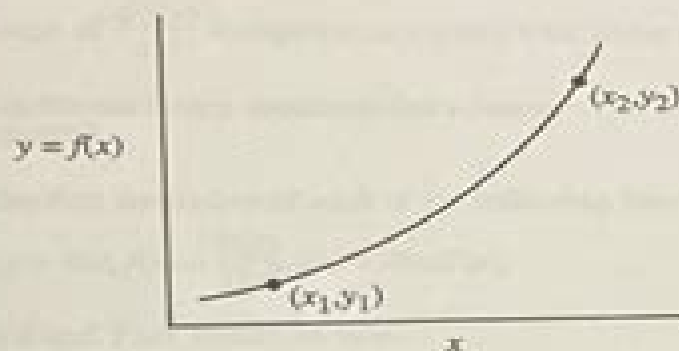


Figure 1

Critical Thinking Questions

1. When a function is increasing what is the sign of $\frac{dy}{dx}$?
2. When a function is decreasing what is the sign of $\frac{dy}{dx}$?
3. When a function is neither increasing nor decreasing what is the value of dy/dx ?

Nmathematics Study Guide

**Barron's Educational Series, Caryl
Lorandini**



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