

Lab 11: The Mean-Value Theorem

Problem Statement

- Suppose f is a function defined on the interval $[a, b]$.
1. If f is continuous on $[a, b]$ and differentiable on (a, b) , then there exists a point c in (a, b) such that $f'(c) = \frac{f(b) - f(a)}{b - a}$. This is the Mean-Value Theorem.
 2. If f is continuous on $[a, b]$ and differentiable on (a, b) , then there exists a point c in (a, b) such that $f'(c) = \frac{f(b) - f(a)}{b - a}$. This is the Mean-Value Theorem.
 3. If f is continuous on $[a, b]$ and differentiable on (a, b) , then there exists a point c in (a, b) such that $f'(c) = \frac{f(b) - f(a)}{b - a}$. This is the Mean-Value Theorem.

Example

Let $f(x) = x^2$ on the interval $[1, 4]$. Then $f(1) = 1$ and $f(4) = 16$. The Mean-Value Theorem guarantees that there is a point c in $(1, 4)$ such that $f'(c) = \frac{f(4) - f(1)}{4 - 1} = \frac{16 - 1}{4 - 1} = 5$. Since $f'(x) = 2x$, we have $2c = 5$, so $c = 2.5$.

Proof

Let f be a function defined on the interval $[a, b]$. Suppose f is continuous on $[a, b]$ and differentiable on (a, b) . We want to show that there exists a point c in (a, b) such that $f'(c) = \frac{f(b) - f(a)}{b - a}$.

$$f'(c) = \lim_{h \rightarrow 0} \frac{f(c+h) - f(c)}{h} = \frac{f(b) - f(a)}{b - a}$$

Let $g(x) = f(x) - \frac{f(b) - f(a)}{b - a}(x - a)$. Then $g(a) = f(a) - \frac{f(b) - f(a)}{b - a}(a - a) = f(a)$ and $g(b) = f(b) - \frac{f(b) - f(a)}{b - a}(b - a) = f(b) - (f(b) - f(a)) = f(a)$. So $g(a) = g(b)$.

By Rolle's Theorem, there exists a point c in (a, b) such that $g'(c) = 0$. But $g'(x) = f'(x) - \frac{f(b) - f(a)}{b - a}$. So $f'(c) - \frac{f(b) - f(a)}{b - a} = 0$, which means $f'(c) = \frac{f(b) - f(a)}{b - a}$.

$$f'(c) = \lim_{h \rightarrow 0} \frac{f(c+h) - f(c)}{h} = \frac{f(b) - f(a)}{b - a}$$

So this example, the Mean-Value Theorem guarantees that there is a point c in $(1, 4)$ such that $f'(c) = \frac{f(4) - f(1)}{4 - 1} = 5$.

The Mean-Value Theorem is a special case of the more general Mean-Value Theorem. The Mean-Value Theorem states that if f is continuous on $[a, b]$ and differentiable on (a, b) , then there exists a point c in (a, b) such that $f'(c) = \frac{f(b) - f(a)}{b - a}$.

$$f'(c) = \lim_{h \rightarrow 0} \frac{f(c+h) - f(c)}{h} = \frac{f(b) - f(a)}{b - a}$$

The Mean-Value Theorem is a special case of the more general Mean-Value Theorem. The Mean-Value Theorem states that if f is continuous on $[a, b]$ and differentiable on (a, b) , then there exists a point c in (a, b) such that $f'(c) = \frac{f(b) - f(a)}{b - a}$.

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F Rizvi



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