

1. GENERAL ADVICE

Typically there are one or two main ideas in a proof around which the entire proof is built. Instead of trying to remember a proof line-for-line, we rather encourage you to recognize and remember the main ideas in the proof.

2. SOME RESULTS ON DIFFERENTIATION

Theorem (Differentiability implies continuity). *If function f is differentiable at a , then f is continuous at a .*

Proof. Since f is differentiable at a , the limit

$$f'(a) = \lim_{x \rightarrow a} \frac{f(x) - f(a)}{x - a}$$

exists. Using the product rule for limits, we have

$$\begin{aligned} \lim_{x \rightarrow a} (f(x) - f(a)) &= \lim_{x \rightarrow a} \left(\frac{f(x) - f(a)}{x - a} \cdot (x - a) \right) \\ &= \lim_{x \rightarrow a} \frac{f(x) - f(a)}{x - a} \cdot \lim_{x \rightarrow a} (x - a) \\ &= f'(a) \cdot 0 = 0 \end{aligned}$$

Therefore,

$$\begin{aligned} \lim_{x \rightarrow a} f(x) &= \lim_{x \rightarrow a} (f(x) + f(a) - f(a)) \\ &= \lim_{x \rightarrow a} (f(x) - f(a)) + \lim_{x \rightarrow a} f(a) \\ &= 0 + f(a) = f(a) \end{aligned}$$

which demonstrates that f is continuous at a . □

Theorem (Product Rule for Derivatives). *If f and g are both differentiable, then*

$$\frac{d}{dx} f(x)g(x) = f'(x)g(x) + f(x)g'(x)$$

Proof. From the definition of derivatives, we have

$$\begin{aligned} \frac{d}{dx} f(x)g(x) &= \lim_{h \rightarrow 0} \frac{f(x+h)g(x+h) - f(x)g(x)}{h} \\ &= \lim_{h \rightarrow 0} \frac{f(x+h)g(x+h) - f(x)g(x+h) + f(x)g(x+h) - f(x)g(x)}{h} \\ &= \lim_{h \rightarrow 0} \left(\frac{(f(x+h) - f(x))g(x+h)}{h} + \frac{f(x)(g(x+h) - g(x))}{h} \right) \\ &= \lim_{h \rightarrow 0} \frac{f(x+h) - f(x)}{h} \cdot \lim_{h \rightarrow 0} g(x+h) + \lim_{h \rightarrow 0} f(x) \cdot \lim_{h \rightarrow 0} \frac{g(x+h) - g(x)}{h} \\ &= f'(x)g(x) + f(x)g'(x) \end{aligned}$$

□

1st Engineering Mathematics Notes

Michael Rajnik



1st Engineering Mathematics Notes:

1st Engineering Mathematics Notes Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**1st Engineering Mathematics Notes**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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