Math

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1 Solve (100 points)

$$\frac{d}{dx}\left(\frac{\lim_{h\to\infty}\frac{(x+h)^3-x^3}{h}\cdot\sum_{n=0}^{\infty}\frac{x^{n+1}}{n+1}}{\int_{x}^{0}ln(t)dt}\right)$$