

$$f(\epsilon) = \frac{1}{1-\epsilon} \quad \frac{\text{continuous on}}{\text{integrable}} \quad [0, 1] \quad \text{for all } \quad \times \in [0, 1)$$

$$\lim_{x \to 1^{-}} \int_{0}^{\infty} \frac{1}{1-\epsilon} dt \quad \text{Divergent II.}$$

$$\lim_{x \to 1^{-}} \int_{1-t}^{x} dt$$
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 $= -\lim_{n \to \infty} |n| |n-x| = \infty$

$$\int_{0}^{2} \frac{1}{(t-1)^{2/3}} dt = 3 + 3 \cdot 2^{1/3}.$$