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087 $\left| \int_0^1 \frac{\sin(\frac{1}{x})}{x^p} \right| \leq \left| \int_0^1 \frac{1}{x^p} \right|$

$\sin(\frac{1}{x})$ is bounded

so option (c)

088 $\lim_{n\to\infty} \frac{1}{n} = 0$ option (B)

089 $\sum u_n$ is convergent $\Rightarrow \lim_{n\to\infty} u_n = 0$

option (a)

090 option (a) $\{n\}$ is divergent

option (b) $\{(-1)^n\} = \{-1, 1, -1, \dots\}$

is oscillating finitely

option (c) $\{n^2\}$ → divergent

option (B)