

Déjà vu If $0 < x < 1$, ($x \in \mathbb{R}$)

$$\begin{aligned} \text{(A)} \quad & \lim_{x \rightarrow 1^-} (x \times x \times x \times \cdots) \\ &= \left(\lim_{x \rightarrow 1^-} x \right) \times \left(\lim_{x \rightarrow 1^-} x \right) \times \left(\lim_{x \rightarrow 1^-} x \right) \times \cdots \\ &= 1 \times 1 \times 1 \times \cdots \\ &= 1. \end{aligned}$$

$$\begin{aligned} \text{(B)} \quad & \lim_{x \rightarrow 1^-} (x \times x \times x \times \cdots) \\ &= \lim_{x \rightarrow 1^-} (0) \\ &= 0. \end{aligned}$$

(C) Both of the above

(D) None of the above