

$$\textcircled{1} \quad \lim_{x \rightarrow -1} [1 + x + x^2 + \dots + x^{10}]$$

Solⁿ: By using property,

$$= \lim_{x \rightarrow -1} (1) + \lim_{x \rightarrow -1} (x) + \lim_{x \rightarrow -1} (x^2) + \dots + \lim_{x \rightarrow -1} x^{10}$$

$$= 1 - 1 + 1 \dots + 1$$

$$= 1$$