

1991 Paper 2 Question 5

Evaluate

- a. Evaluate $\lim_{x \rightarrow \infty} \left(\frac{a^x - 1}{a - 1} \right)$, where $0 < a < 1$.
b. Evaluate $\lim_{x \rightarrow \infty} \left(\frac{a^x - 1}{a - 1} \right)$, where $a > 1$.