

Exam: General Mathematics

Question 1

Limits

2023 | Dr. Smith

Given:

$$\text{Let } x_n = \frac{3n+1}{n-2}.$$

To Prove:

$$\text{Prove that } \lim(x_n) = 3.$$

Hint: Use the definition of convergence.

Official Solution:

Scratch Work (Proof)

Find N such that $|x_n - 3| < \varepsilon$.

End of Examination