

Exam: Limits

Question 1

Limits of Sequences

2023 | Dr. Smith

Given:

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

To Prove:

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