

MATH310 Groupwork 2022-08-09

NAME:

1. Prove that:

$$\left\{ \frac{n+2}{n+1} \right\} \not\rightarrow \frac{101}{100}$$

Do not do this by proving that the sequence converges to something else, rather prove that the sequence satisfies the negation of the limit definition.

Solution:

2. Prove or disprove: If $\{a_n\}$ and $\{b_n\}$ both diverge, so does $\{a_nb_n\}$.

Solution: