Homework due Thursday, October 5, at 3:00 pm.

A. Let
\[ E = \left\{ \frac{3n + 1}{2n} : n \in \mathbb{N} \right\}. \]
Compute \( \sup E \) and \( \inf E \). Justify your answer.

B. Rudin, Chapter 1 (page 21), problems #1, 2, 5.