Question: Calculate lim sup  $x_n$  for  $x_n = (-1)^n(\frac{n+5}{n})$ 

Question: Find  $\lim \inf A_n$  where:

$$A_n = \left\{ \begin{array}{ll} 0 \leq x < 1 & n \, is \, odd \\ 1 \leq x \leq 2 & n \, is \, even \end{array} \right.$$