On Problem #25 of Section 5.3, the following sequence definition must be written exactly as written here, in the heading of the proof, before the line beginning “TO PROVE:”

Sequence Definition:
The sequence \((b_n)\) is defined as follows:
\[b_0 = 5, \text{ and, for all integers } k \geq 1, \quad b_k = 4 + b_{k-1}.\]