Exercises

3.288 [063] Recall that

$$A^c = X \setminus A = \{x \in X : x \notin A\}$$

is the complement of A in X (as defined in [23S]). Show that

$$(\limsup_{n\to\infty} A_n)^c = \liminf_{n\to\infty}(A_n^c) \ .$$