

Exercises

E24.1 [1TZ] Note: exercise 6 in the written exam 13/1/2011.

Each integer $n \geq 1$ decomposes uniquely as $n = 2^k d$, with $k \in \mathbb{N}$ and d odd integer. Consider the sequence $a_n = d/2^k$ and compute

- (a) its upper and lower limit;
- (b) the set of limit points.