

Increasing sequence

A sequence u_1, u_2, \dots is called *increasing* if $u_n \leq u_{n+1}$ for all $n \geq 1$ (so $u_1 \leq u_2 \leq u_3 \leq \dots$).

It is called *strictly increasing* if $u_n < u_{n+1}$ for all $n \geq 1$.

See also [decreasing sequence](#).