

# 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](#).