

Notes: Sequences

A **sequence** of *real numbers* is a real-valued function whose domain is defined on the set of positive integers.

Using function notation, $f(1) = a_1, f(2) = a_2, f(3) = a_3, \dots$

Example:

1) $a_n = \frac{n-1}{n^2}$

n									
a_n									

2) $a_1 = 2, \quad a_{n+1} = 3a_n$

3) $a_1 = 1, \quad a_{n+1} = (n+1)a_n$