

3H Nature of Sequences

1. For the following relationship, state whether the sequence is increasing, decreasing, or periodic:

a) $u_{n+1} = u_n + 3, u_1 = 7$

b) $u_{n+1} = (u_n)^2, u_1 = \frac{1}{2}$

c) $u_n = \sin(90n)$