**3H Nature of Sequences**

1. For the following relationship, state whether the sequence is increasing, decreasing, or periodic:
2. $u\_{n+1}=u\_{n}+3$, $u\_{1}=7$
3. $u\_{n+1}=\left(u\_{n}\right)^{2}$, $u\_{1}=\frac{1}{2}$
4. $u\_{n}=sin⁡(90n)$