1. $\forall n \in \mathbb{N},\ u_n = \left(\sum_{k=0}^{n} \frac{1}{2^k}\right) - n$
2. $\forall n \in \mathbb{N},\ u_n = \frac{n!}{2^{n+1}}$
3. $\forall n \in \mathbb{N}^\star,\ u_n = \frac{\ln(n)}{n}$
4. $\forall n \in \mathbb{N},\ u_n = \sum_{k=0}^{2n} \frac{(-1)^k}{k+1}$
5. $\forall n \in \mathbb{N},\ u_n = n + 2(-1)^n$
6. $\forall n \in \mathbb{N},\ u_n = \sum_{k=2}^{n} \frac{1}{k\ln(k)}$