3)
$$X_n = \frac{1}{n+1} + \frac{1}{n+2} + \cdots + \frac{1}{n+n}$$

$$K_{n=1} = \frac{1}{N_{n+1}} = \frac{$$

Considerenos
$$f: [0,1] \rightarrow IR$$

$$f(x) = \frac{1}{1+x} \forall x \in [0,1]$$

Porta regla de Barrow

Como f es continua, entonces es integrable, y por la regla de Barrow

$$\int_{0}^{1} \int_{0}^{1} dx = \int_{0}^{1} \frac{1}{1+x} dx = \ln|1+x||_{0}^{1} = \ln(2) - \ln(1) = \ln(2)$$

Por último, se tiene:

$$\int_{0}^{1} \int_{0}^{1} dx = \int_{0}^{1} \frac{1}{1+x} dx = \lim_{n\to\infty} \frac{1}{n} \sum_{K=1}^{n} \int_{0}^{1} \frac{1}{1+x} dx = \lim_{n\to\infty} \frac{1}{n} \sum_{K=1}^{n} \frac{1}{1+x} = \lim_{n\to\infty} \frac{1}{n} = \lim_{n\to\infty} \frac$$

$$= \lim_{n\to\infty} x_n = \left[\frac{L_n(2)}{L_n(2)} \right]$$