$$= \frac{1}{k(k+1)} + \frac{1}{(k+1)(k+2)}$$

$$=\frac{K}{(K+1)}+\frac{1}{(K+1)(K+2)}$$

$$=\frac{K(K+2)+1}{(K+1)(K+2)}$$

$$= \frac{K^2 + 2K + 1}{(K+1)(K+2)} = \frac{K^2 + K + K + 1}{(K+1)(K+2)}$$

$$= \frac{k(k+1)+1(k+1)}{(k+1)(k+2)} = \frac{(k+1)(k+1)}{(k+1)(k+2)}$$

Therefore, proved, It is tive for all NEZt