

$$v_{n+1} = \frac{v_n}{1 + v_n}, u_n = \frac{1}{v_n}$$

نوجد  $u_{n+1}$ :

$$u_{n+1} = \frac{1}{v_{n+1}} = \frac{1}{\frac{v_n}{1 + v_n}} = \frac{1 + v_n}{v_n}$$

نشكل الفرق:

$$u_{n+1} - u_n = \frac{1 + v_n}{v_n} - \frac{1}{v_n} = \frac{1 + v_n - 1}{v_n} = \frac{v_n}{v_n} = 1 = r$$

متتالية حسابية أساسها  $r = 1$ .