

2.67  
k2

$$\begin{cases} q = \frac{u_1}{1-q} & / (1)^2 \\ 13.5 = \frac{u_1 u_2}{1-q^2} = \frac{u_1^2 q}{1-q^2} \end{cases}$$

$$\frac{u_n u_{n+1}}{u_n u_{n-1}} = q^2 \quad \text{היחס בין הסדרות}$$

$$\begin{cases} 81 = \frac{u_1^2}{(1-q)^2} \\ 13.5 = \frac{q u_1^2}{(1-q)(1+q)} \end{cases} \rightarrow 6 = \frac{1+q}{q(1-q)} \rightarrow 6q^2 - 5q + 1 = 0$$

$\begin{cases} q = \frac{1}{2} \rightarrow u_1 = 4\frac{1}{2} \\ q = \frac{1}{3} \rightarrow u_1 = 6 \end{cases}$