

$$\begin{aligned}
 \frac{74}{(305)} \quad \frac{b_n}{b_{n-1}} &= \frac{a_{k(n-1)+1} + \dots + a_{nk}}{a_{k(n-2)+1} + \dots + a_{k(n-1)}} = \frac{a_{k(n-1)+1} (1+q+q^2+\dots+q^k)}{a_{k(n-2)+1} (1+q+q^2+\dots+q^k)} \\
 &= \frac{a_{kn-k+1}}{a_{kn-2k+1}} = \frac{a_{kn-2k+1} \cdot q^k}{a_{kn-2k+1}} = q^k
 \end{aligned}$$