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(305)

$$\frac{b_n}{b_{n+1}} = \frac{a_{n+1} + a_{n+2} + \dots + a_{n+k-1}}{a_{n+2} + a_{n+3} + \dots + a_{n+k}} = \frac{a_n (1 + q + q^2 + \dots + q^{k-1})}{a_{n+1} (1 + q + q^2 + \dots + q^{k-1})} = \frac{a_n}{a_{n+1}} = q$$