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$$\frac{S_{2n}}{S_{n+1}} = \frac{\frac{a_1(q^{2n}-1)}{q-1}}{\frac{a_1((-q)^{2n}-1)}{-q-1}} = \frac{\frac{a_1(q^{2n}-1)}{q-1}}{\frac{a_1(q^{2n}-1)}{-q-1}} = \frac{-q-1}{q-1} = \frac{q+1}{1-q}$$