

2.50
22

$$(1) \quad \frac{b_n}{b_{n-1}} = \frac{\frac{a_{n+1}}{1-q}}{\frac{a_n}{1-q}} = \frac{a_{n+1}}{a_n} = q \quad . |q| < 1 \text{ jnsi}$$

$$(2) \quad S = \frac{b_1}{1-q} = \frac{\frac{a_1}{1-q}}{1-q} = \frac{a_1}{(1-q)^2} = \frac{a_1 q}{(1-q)^2}$$