

λ2 2.62

$$a_1 = 1$$
$$2 \frac{1}{6} a_n = a_{n-1} + a_{n+1}$$
$$2 \frac{1}{6} a_n = \frac{a_n}{2} + a_n \quad /: a_n$$
$$2 \frac{1}{6} = \frac{1}{2} + 1 \quad | \cdot 6$$
$$6q^2 - 13q + 6 = 0$$
$$q_1 = \frac{9}{6} = \frac{3}{2} > 1$$
$$q_2 = \frac{4}{6} = \frac{2}{3}$$
$$S = \frac{a_1}{1-q} = \frac{1}{1-\frac{2}{3}} = 3$$

*λ2
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