

$\frac{53}{(317)}$

$$S_9 = 8 \frac{1}{9} S_6$$

$$\frac{a_1(q^9-1)}{q^8-1} = \frac{73}{9} \cdot \frac{a_1(q^6-1)}{q^5-1}$$

$$q^9-1 = \frac{73}{9}(q^6-1)$$

$$(q^3-1)(q^4+q^3+1) = \frac{73}{9}(q^3-1)(q^3+1)$$

$$9q^6+9q^3+9 = 73q^3+73$$

$$9q^6-64q^3-64=0$$

$$q^3=t$$

$$9t^2-64t-64=0$$

$$t=8 \rightarrow q^3=8 \rightarrow \boxed{q=2}$$

$$t=\frac{-16}{9} \rightarrow q^3=\frac{-16}{9} \rightarrow \sqrt[3]{\frac{-16}{9}}$$

Monje edaj
 a^2-b^2
 a^3-b^3