

$$\begin{cases} a_1 + a_2 + a_3 = 76 \\ a_1 + a_3 + a_5 = 133 \end{cases}$$

$$\begin{cases} 76 = a_1(1+q+q^2) \\ 133 = a_1(1+q^2+q^4) \end{cases}$$

$$\frac{133}{76} = \frac{q^4+q^2+1}{q^2+q+1}$$

$$\frac{133}{76} = q^2 - q + 1 \rightarrow$$

$$4q^2 - 4q - 3 = 0$$

$$q = \frac{1}{2}, a_1 = 16$$

$$q = -\frac{1}{2}, a_1 = 101\frac{1}{3}$$

$$\begin{array}{r} q^4 - q^2 + 1 \\ q^4 + q^2 + 1 \quad | \quad q^2 + q + 1 \\ \hline -q^3 + 1 \\ -q^3 - q^2 - q \\ \hline q^2 + q + 1 \\ q^2 + q + 1 \\ \hline 0 \end{array}$$