

$$\begin{aligned}
 & \frac{1}{x} \left(\frac{1}{x} + \frac{1}{x} + \frac{1}{x} + \dots \right) = \frac{1}{x} \left(\frac{1}{1-x} \right) = \frac{1}{x(1-x)} \\
 & = \frac{1}{x} \left(1 + x + x^2 + \dots \right) = \frac{1}{x} + 1 + x + x^2 + \dots
 \end{aligned}$$

~~1. $\xi_{j_i} = \xi_{j_i} \cdot \xi_{j_i}$~~
~~2. $\xi_{j_i} = \xi_{j_i} \cdot \xi_{j_i}$~~