

$$\begin{aligned}
 & \left(\frac{1}{n} \sum_{i=1}^n \frac{1}{x_i} \right)^{-1} = \frac{1}{\frac{1}{n} \sum_{i=1}^n \frac{1}{x_i}} \\
 & = \frac{n}{\sum_{i=1}^n \frac{1}{x_i}}
 \end{aligned}$$