Problem.
Let $X_n \overset{iid}{\sim} Gamma(5, \beta)$ where the PDF of a $Gamma(\alpha, \beta)$ is

$$f(x) = \frac{\beta^\alpha}{\Gamma(\alpha)} x^{\alpha-1} \exp(-\beta x) \text{ for } x > 0$$

What is the MLE for β?

□