Quiz Problem 4

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Pro	h	lem

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 ?

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