Quiz Problem 6Due Mar. 18th, 11:59 pm EST

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Problem. Let x>0 and $\sigma^2>0$ be known constants. Assume $X_n\stackrel{iid}{\sim} N(x\beta,\sigma^2)$ for and unknown β . Find the CRLB for β and use it to show that

| $\hat{eta}=ar{Y}/x$ |
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| is the UMVUE. \Box |
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