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

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

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