

# Reflexive Vector Space

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Hi. I was wondering if the following is true.

Given a normed vector space  $X$ . Its dual is reflexive implies  $X$  is reflexive.

Do you have to assume  $X$  is a Banach space? Any hints to prove it?  
Thanks a lot!

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- *Follow-Ups:*
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    - ◇ *From:* David C. Ullrich
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