✕ Lessons

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Fibonacci numbers with negative indices

The Fibonacci numbers can be extended to zero and negative indices using the relation $F_n = F_{n+2} - F_{n+1}$. Determine F_0 and find a general formula for F_{-n} in terms of F_n. Prove your result using mathematical induction.

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There are two ways you can submit your answer to this prompt:

*1) **Easier option:** You can write up the proof on a piece of paper, take a picture or scan it, and then post it as your reply by clicking on the Camera or Picture icon. Make sure the proof is legible so others can comment on it.*

*2) **Advanced option:** You can type in your answer using Mathjax input. Read more here - Mathjax Basic Tutorial.*
__Important Notes:__ Coursera requires you to use double $$ at the start and end of each expression (single $ does not work). HKUST cannot support any technical problems encountered with Mathjax input in Coursera.

Participation is optional

[📷]   Type your response here…

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23 learners have submitted a response.