

1. Use proof by induction to prove that $3^{n+1} \leq n!$ for all natural numbers $n \in \mathbb{N}$ with $n \geq 2$. (5 marks)

Let $P(n)$ be the statement $3^{n+1} \leq n!$.

Base case: Let $n=2$, we have $3^{2+1} = 27$ and $2! = 2$, and this is true.

Inductive step: let $k \in \mathbb{N}$ with $k \geq 2$ and assume $P(k)$ is true. Then $3^{k+1} \leq k!$.

Then we show $P(k+1)$ is true, i.e. $3^{(k+1)+1} \leq (k+1)!$.

$$\begin{aligned} 3^{k+2} &= 3^{k+1} \cdot 3 \\ &\leq k \cdot 3^{k+1} \quad (k \geq 3) \\ &\leq k \cdot k! \quad (\text{Using } P(k)) \\ &\leq (k+1) \cdot k! \quad (k \geq 2) \\ &= (k+1)! \end{aligned}$$

Because $k \geq 2$, therefore $P(k+1)$ is true for all integers k with $k \geq 2$. By induction $P(n)$ is true for all $n \in \mathbb{N}$ with $n \geq 2$.

Coursework

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Question 1

Question 1

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Question 2

Question 2

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The simulation results demonstrate ... Stability and performance evaluation of the speed control ... by SA Salman · 2021 · Cited by 3 — This paper presents the design of a state-feedback control to evaluate the performance of the speed control of DC motor for different applications. The. Precision Speed Control of A DC Motor Using Fuzzy Logic ... Precision Speed Control of A DC Motor Using Fuzzy Logic Controller Optimized by ... Universiti Teknologi Malaysia, ACKNOWLEDGMENT Johor, Malaysia, in 2011. He ... DC Motor Control | Automation & Control Engineering Forum Jun 20, 2022 — I have a 1 HP DC motor that I'm currently manually controlling using a Dayton 1F792 DC Speed Control unit. I want to automate the following ... The Four Pillars of Investing: Lessons... by Bernstein, William The Four Pillars of Investing: Lessons... by Bernstein, William The Four Pillars of Investing:... by William J. Bernstein Bernstein outlines the four pillars necessary to set up an effective investment strategy; investment theory, history, psychology and the business of investing. The Four Pillars of Investing: Lessons for Building a ... The classic guide to constructing a solid portfolio—without a financial advisor! “With relatively little effort, you can design and assemble an investment ... The Four Pillars of Investing: Lessons for Building a ... The book presents the Four Pillars of Investing, then shows how to use the pillars to assemble a portfolio. Pillar 1: Investment Theory • High returns require ... The Four Pillars of Investing : Lessons for Building a ... The Four Pillars of Investing : Lessons for Building a Winning Portfolio by William J. Bernstein (2002, Hardcover). The Four Pillars of Investing: Lessons for Building a Winning ... The classic guide to constructing a solid portfolio--without a financial advisor ""With relatively little effort, you can design and assemble an investment ... Four Pillars of Investing: Lessons for Building a Winning Po by ... Author: William Bernstein ISBN 10: 0071747052. Title: Four Pillars of Investing: Lessons for Building a Winning Po Item Condition: New. The Four Pillars of Investing: Lessons for Building ... Practical investing advice based on fascinating history lessons from the market · Exercises to determine risk tolerance as an investor · An easy-to-understand ... The Four Pillars of Investing, Second Edition The Four Pillars of Investing, Second Edition: Lessons for Building a Winning Po. NWT. William Bernstein. \$28 \$43. Discounted Shipping. Size. Hardcover.