

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 $n \geq 2$.

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Question 1

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Table of Contents Grade1scope Paper2 Maths

1. Understanding the eBook Grade1scope Paper2 Maths
 - The Rise of Digital Reading Grade1scope Paper2 Maths
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade1scope Paper2 Maths
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Grade1scope Paper2 Maths
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade1scope Paper2 Maths
 - Personalized Recommendations

- Grade1scope Paper2 Maths User Reviews and Ratings
- Grade1scope Paper2 Maths and Bestseller Lists
- 5. Accessing Grade1scope Paper2 Maths Free and Paid eBooks
 - Grade1scope Paper2 Maths Public Domain eBooks
 - Grade1scope Paper2 Maths eBook Subscription Services
 - Grade1scope Paper2 Maths Budget-Friendly Options
- 6. Navigating Grade1scope Paper2 Maths eBook Formats
 - ePub, PDF, MOBI, and More
 - Grade1scope Paper2 Maths Compatibility with Devices
 - Grade1scope Paper2 Maths Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade1scope Paper2 Maths
 - Highlighting and Note-Taking Grade1scope Paper2 Maths
 - Interactive Elements Grade1scope Paper2 Maths
- 8. Staying Engaged with Grade1scope Paper2 Maths
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade1scope Paper2 Maths
- 9. Balancing eBooks and Physical Books Grade1scope Paper2 Maths
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade1scope Paper2 Maths
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Grade1scope Paper2 Maths
 - Setting Reading Goals Grade1scope Paper2 Maths
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Grade1scope Paper2 Maths
 - Fact-Checking eBook Content of Grade1scope Paper2 Maths

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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