

Sequences

CHAPTER 13

when $n \in \mathbb{Z}^+$ the binomial expansion of $(1+x)^n$ in ascending powers of x

$$(1+x)^n = 1 + nx + \frac{n(n-1)}{2!}x^2 + \frac{n(n-1)(n-2)}{3!}x^3 + \dots$$

infinite no. of terms

↳ NOTE: only valid if $-1 < x < 1$

eg find the valid range of x values for $(1+2x)^{-1}$

① let $y =$ the x value let $y = 2x \therefore (1+2x)^{-1} \rightarrow (1+y)^{-1}$

range for $(1+y)^{-1}$ is $-1 < y < 1$

② sub back in for $y \therefore -1 < 2x < 1$

③ rearrange $-\frac{1}{2} < x < \frac{1}{2}$ or $|x| < \frac{1}{2}$

for $n \in \mathbb{Z}^+$, the binomial expansion of $(a+bx)^n$ is only valid for $|\frac{b}{a}x| < 1$

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Kathleen Armour



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1. Understanding the eBook Aqa P1 Jun 13 Maths A Level
 - The Rise of Digital Reading Aqa P1 Jun 13 Maths A Level
 - Advantages of eBooks Over Traditional Books
2. Identifying Aqa P1 Jun 13 Maths A Level
 - 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 Aqa P1 Jun 13 Maths A Level
 - User-Friendly Interface
4. Exploring eBook Recommendations from Aqa P1 Jun 13 Maths A Level
 - Personalized Recommendations
 - Aqa P1 Jun 13 Maths A Level User Reviews and Ratings

- Aqa P1 Jun 13 Maths A Level and Bestseller Lists
- 5. Accessing Aqa P1 Jun 13 Maths A Level Free and Paid eBooks
 - Aqa P1 Jun 13 Maths A Level Public Domain eBooks
 - Aqa P1 Jun 13 Maths A Level eBook Subscription Services
 - Aqa P1 Jun 13 Maths A Level Budget-Friendly Options
- 6. Navigating Aqa P1 Jun 13 Maths A Level eBook Formats
 - ePub, PDF, MOBI, and More
 - Aqa P1 Jun 13 Maths A Level Compatibility with Devices
 - Aqa P1 Jun 13 Maths A Level Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Aqa P1 Jun 13 Maths A Level
 - Highlighting and Note-Taking Aqa P1 Jun 13 Maths A Level
 - Interactive Elements Aqa P1 Jun 13 Maths A Level
- 8. Staying Engaged with Aqa P1 Jun 13 Maths A Level
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Aqa P1 Jun 13 Maths A Level
- 9. Balancing eBooks and Physical Books Aqa P1 Jun 13 Maths A Level
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Aqa P1 Jun 13 Maths A Level
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Aqa P1 Jun 13 Maths A Level
 - Setting Reading Goals Aqa P1 Jun 13 Maths A Level
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Aqa P1 Jun 13 Maths A Level
 - Fact-Checking eBook Content of Aqa P1 Jun 13 Maths A Level
 - 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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