

Exercise for Section 11.3

1. Let $f: \mathbb{R} \rightarrow \mathbb{R}$ be defined by $f(x) = x^2$ for $x \in \mathbb{R}$.
- a. Show that the inverse image $f^{-1}(I)$ of an open interval $I = (a, b)$ is either an open interval, the union of two open intervals, or empty, depending on a and b .

Proof

Kasus 1: $a < b \leq 0 \rightarrow I = (a, b)$

Sehingga $f^{-1}(x) = \sqrt{x}, \forall x \in I$

Karena $x < 0$, maka $f^{-1}(x) \in \mathbb{R}$

Akibatnya $f^{-1}(I) = \emptyset$, himpunan kosong

Kasus 2: $a < 0 < b \rightarrow I = (a, b)$

Ambil sembarang $x \in I$ dimana $a < x < 0$, maka $f^{-1}(x) \in \mathbb{R}$

Dilain pihak, jika $b > 0$, maka $f^{-1}(b) = \sqrt{b}$ atau $f^{-1}(b) = -\sqrt{b}$

Akibatnya $f^{-1}(I) = (-\sqrt{b}, \sqrt{b})$, himpunan buka

Kasus 3: $0 \leq a < b \rightarrow I = (a, b)$

Perhatikan bahwa jika $0 < a < b$ maka $0 < \sqrt{a} < \sqrt{b}$ dan juga $-\sqrt{b} < -\sqrt{a} < 0$

Hal ini berarti $f^{-1}(I) = (-\sqrt{b}, -\sqrt{a}) \cup (\sqrt{a}, \sqrt{b})$, gabungan 2 himpunan buka

- b. Show that if I is an open interval containing 0, then the direct image $f(I)$ is not open

Proof

Akan ditunjukkan bahwa jika $0 \in I$ dengan I buka, maka $f(I)$ tidak buka.

Misalkan $I = (a, b)$ buka, karena $0 \in I$, maka $a < 0 < b$

2. Let $f: \mathbb{R} \rightarrow \mathbb{R}$ be defined by $f(x) = \frac{1}{1+x^2}$ for $x \in \mathbb{R}$. (a)
- a. Find an open interval (a, b) whose direct image under f is not open.

Pilih $I = (-1, 1)$

Perhatikan bahwa

Jika $x \in I$, dimana $0 \leq x < 1$, maka $\frac{1}{2} < f(x) \leq 1$

Dilain pihak jika $-1 < x \leq 0$, maka $\frac{1}{2} < f(x) \leq 1$

Akibatnya $f(I) = \left(\frac{1}{2}, 1\right]$ tidak buka

- b. Show that the direct image of the closed interval $[0, \infty)$ is not closed.

Misalkan $I = [0, \infty)$

Ambil sembarang $x \in I$, maka $0 \leq x$

Sehingga $f(x) \leq f(0) \rightarrow f(x) \leq 1$

Topology Answers

George A. Duckett



Topology Answers

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Table of Contents Topology Answers

1. Understanding the eBook Topology Answers
 - The Rise of Digital Reading Topology Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Topology Answers
 - 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 Topology Answers
- User-Friendly Interface
- 4. Exploring eBook Recommendations from Topology Answers
 - Personalized Recommendations
 - Topology Answers User Reviews and Ratings
 - Topology Answers and Bestseller Lists
- 5. Accessing Topology Answers Free and Paid eBooks
 - Topology Answers Public Domain eBooks
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 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Topology Answers
- 9. Balancing eBooks and Physical Books Topology Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Topology Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Topology Answers

- Setting Reading Goals Topology Answers
- Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Topology Answers
 - Fact-Checking eBook Content of Topology Answers
 - 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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