

## 部分习题答案

### Chapter 10

3. Prove that if  $f$  is a real function on a measurable space  $X$  such that  $\{x : f(x) \geq r\}$  is measurable for every rational  $r$ , then  $f$  is measurable.

[proof] For each real number  $\alpha$ , there exists an decreasing sequence  $\{r_n\}$  of rational numbers such that  $\lim_{n \rightarrow \infty} r_n = \alpha$ . Moreover, we have

$$(\alpha, +\infty) = \bigcup_{n=1}^{\infty} (r_n, +\infty).$$

Hence,

$$f^{-1}((\alpha, +\infty)) = \bigcup_{n=1}^{\infty} f^{-1}(r_n, +\infty).$$

Since sets  $f^{-1}(r_n, +\infty)$  are measurable for each  $n$ , the set  $f^{-1}((\alpha, +\infty))$  is also measurable. Thus  $f$  is measurable.

4. Let  $\{a_n\}$  and  $\{b_n\}$  be sequences in  $[-\infty, +\infty]$ , and prove the following assertions:

(a)

$$\limsup_{n \rightarrow \infty} (-a_n) = -\liminf_{n \rightarrow \infty} a_n,$$

(b)

$$\limsup_{n \rightarrow \infty} (a_n + b_n) \leq \limsup_{n \rightarrow \infty} a_n + \limsup_{n \rightarrow \infty} b_n,$$

provided none of the terms is of the form  $\infty - \infty$ .

(c) If  $a_n \leq b_n$  for all  $n$ , then

$$\liminf_{n \rightarrow \infty} a_n \leq \liminf_{n \rightarrow \infty} b_n.$$

Show by an example that strict inequality can hold in (c).

[proof] (a) Since

$$\sup_{k \geq n} (-a_k) = -\inf_{k \geq n} a_k, \quad n = 1, 2, \dots,$$

Therefore, let  $\alpha = \lim_{n \rightarrow \infty} \inf_{k \geq n} a_k$ , it follows

$$\lim_{n \rightarrow \infty} \sup_{k \geq n} (-a_k) = -\lim_{n \rightarrow \infty} \inf_{k \geq n} a_k.$$

# Rudin Analysis Solutions Chapter 1

**RS Peters**



## **Rudin Analysis Solutions Chapter 1:**

The Top Books of the Year Rudin Analysis Solutions Chapter 1 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have captivated audiences this year. The Must-Read : Colleen Hoover "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Rudin Analysis Solutions Chapter 1 : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Pappen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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