

Problem 6. (Slow variation, regular variation)

a) Show that the following functions are slowly varying at ∞ .

i) $L(x) = 2 + \cos(1/x), x > 0$.

ii) $L(x) = \log x, x > 0$.

iii) $L(x) = 1/\log x, x > 1$.

iv) $L(x) = \tilde{L}(1/x)$ where $\tilde{L} : [0, \infty) \rightarrow [0, \infty)$ is slowly varying at 0.

b) Show that the following functions are regularly varying at ∞ and determine the corresponding index.

i) $h(x) = x^{-\theta}, x > 0, \theta > 0$.

ii) $h(x) = (1+x)^{-\theta}, x > -1, \theta > 0$.

iii) $h(x) = \tilde{h}(1/x), x > 0$, where \tilde{h} is regularly varying at 0 with index $\alpha \in \mathbb{R}$.

Answer:

Regular Variation

Terry C. Jones



Regular Variation:

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In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Regular Variation** a literary masterpiece penned by way of a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of people who partake in its reading experience.

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