

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

Yicheng Fang



Regular Variation:

Reviewing **Regular Variation**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Regular Variation**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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