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4 CONTENTS

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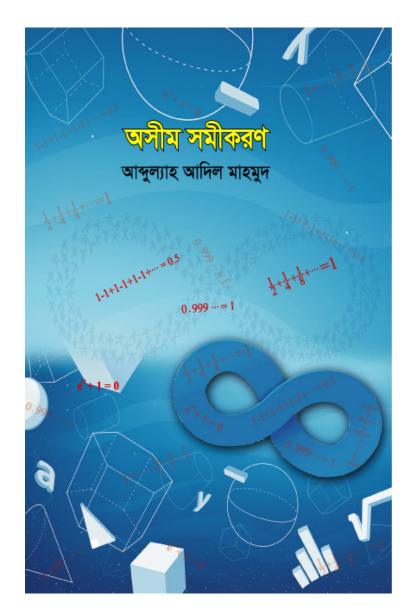


Figure 1: Book Cover

0.4.



Figure 2: Author

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() (,)
() ()
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: almahmud.sbi@gmail.com

: thinkermahmud.com/

: mahmud.sbi

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8 CONTENTS

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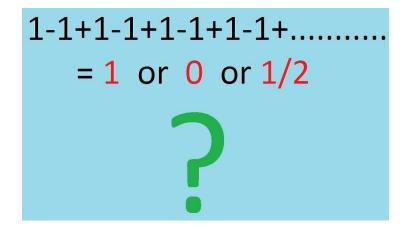
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Part I

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Chapter 1



14 CHAPTER 1.

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15

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             S =
             S = .
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                    1.
                    2.
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                                                                                                                                                                                                                                                                                                (Rearrangement)
                                                                                                                                                                                                                                                                                                                                                                                                                                          (Divergent)
                                                                                                                                                                                   (Convergent)
\frac{1}{2} + \frac{1}{4} + \frac{1}{8} + \frac{1}{16} + \dots  \infty
\frac{1}{2} + \frac{1}{3} + \frac{1}{5} + \frac{1}{7} + \frac{1}{11} + \dots
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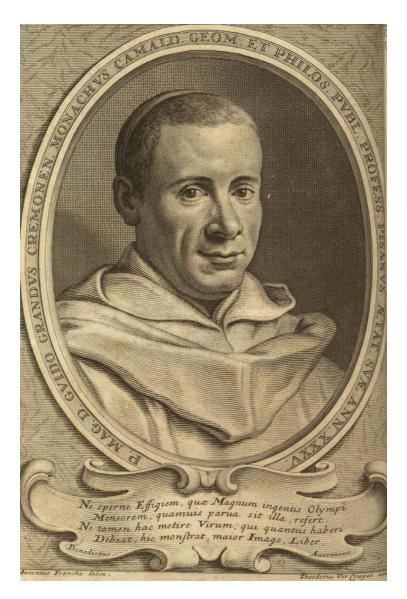
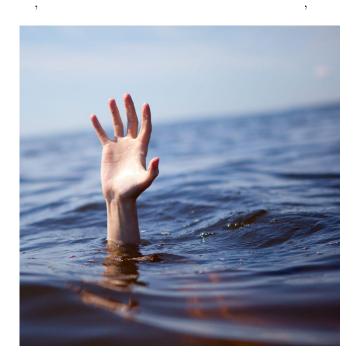
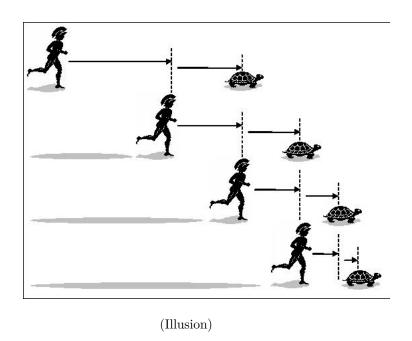


Figure 1.1: Guido Grandi



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Chapter 2

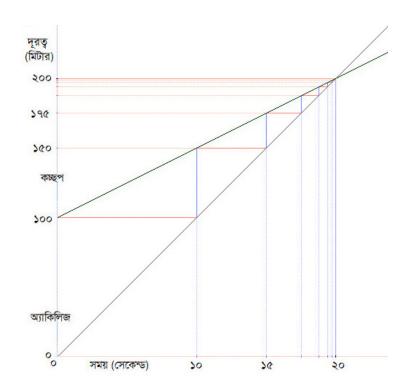


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20 CHAPTER 2.

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, " Enlightening Symbols

 $, \qquad \qquad (\qquad , \qquad)$

(Convergent) (Divergent) $+ + + \dots$

 $\frac{1}{2} + \frac{1}{4} + \frac{1}{8} + \cdots$

,

 $\frac{x}{2} \qquad \frac{x}{4}, \frac{x}{8} \qquad \frac{x}{8} \cdots \qquad \qquad = \frac{x}{2}$ $\{\cdots, \frac{1}{16}, \frac{1}{8}, \frac{1}{4}, \frac{1}{2}, 1\}$!

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, Halfway to Zero

!

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Chapter 3

24 CHAPTER 3.

Chapter 4



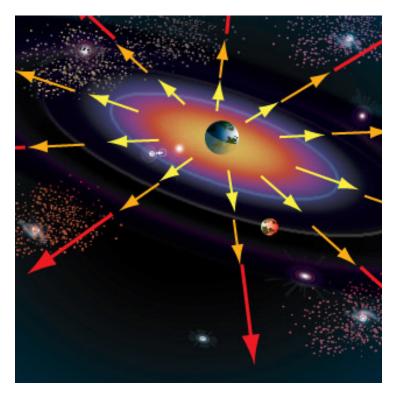
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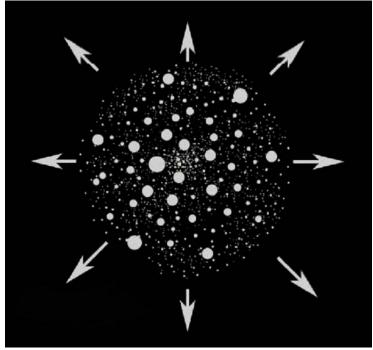
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26 CHAPTER 4.

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#
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,
Number System)
          ?
(Probability)
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 $28 \hspace{3.1in} CHAPTER \ 4.$

! ? (Sample) (Prediction)