

2023-12-26

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	5
0.1	5
0.2	5
0.3	5
0.4	7
0.5	7
0.6	8
I	9
1	13
2	19
3	23
4	25

0.1

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0.3

(EAL)

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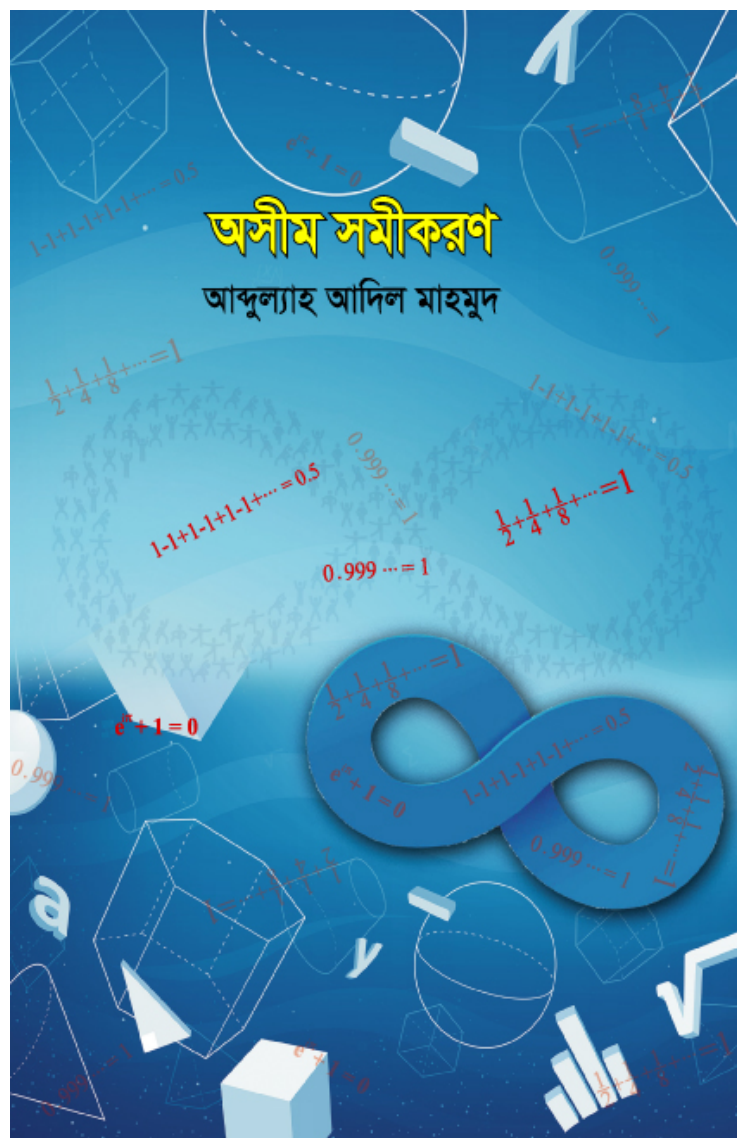


Figure 1: Book Cover



Figure 2: Author

0.4

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- ()
- () ()
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: almahmud.sbi@gmail.com
: thinkermahmud.com/
: mahmud.sbi

0.5

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— II Saggiatore (1623)

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Part I

(Self-contradictory)

Chapter 1

$1-1+1-1+1-1+1-1+\dots\dots\dots$
= 1 or 0 or 1/2
?

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$$\begin{aligned}
& \text{, “ ”} \\
& \text{, ?} \\
& \text{, , ?} \\
& \text{, } - + - + - + - \dots \\
& \text{, ? , , ,} \\
& \text{, !} \\
& \text{, } = S \\
& \text{, } S = - + - + - + - + \dots \\
& = (-) + (-) + (-) + \dots = + + + \dots \\
& = \\
& \text{,} \\
& \text{, } S = - + - + - + - + \dots \\
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& S = - + - + - + - + \dots \\
& S = + (- +) + (- +) + (- +) + \dots \\
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& = \\
& \text{, , ,} \\
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& = \text{ (Eilenberg–Mazur swindle)} \\
& = \\
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& = + (- +) + (- +) + \dots = - + - + \dots = (-) + (-) + \dots =
\end{aligned}$$

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 $S = - + - + - + - + \dots$
 , $-S = -(- + - + \dots) = - + - + \dots = S$,
 , $-S = S$
 $S + S =$
 $S =$
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 , ... - ()
 , , , , ?
 , , , ,
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- 1.
2. .

“ ” ,
 ,
 , , (Rearrangement)
 (Convergent) (Divergent)
 ,

$$\frac{1}{2} + \frac{1}{4} + \frac{1}{8} + \frac{1}{16} + \dots = \infty$$

$$\frac{1}{2} + \frac{1}{3} + \frac{1}{5} + \frac{1}{7} + \frac{1}{11} + \dots$$

, , $\frac{1}{\infty} = \frac{1}{\frac{1}{0}} = 1 \times \frac{1}{0} = 0$
 , , ,

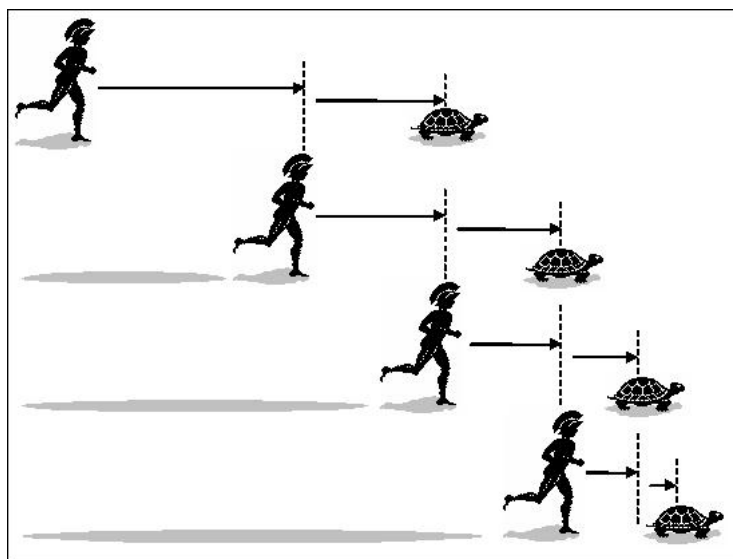
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Figure 1.1: Guido Grandi

Chapter 2



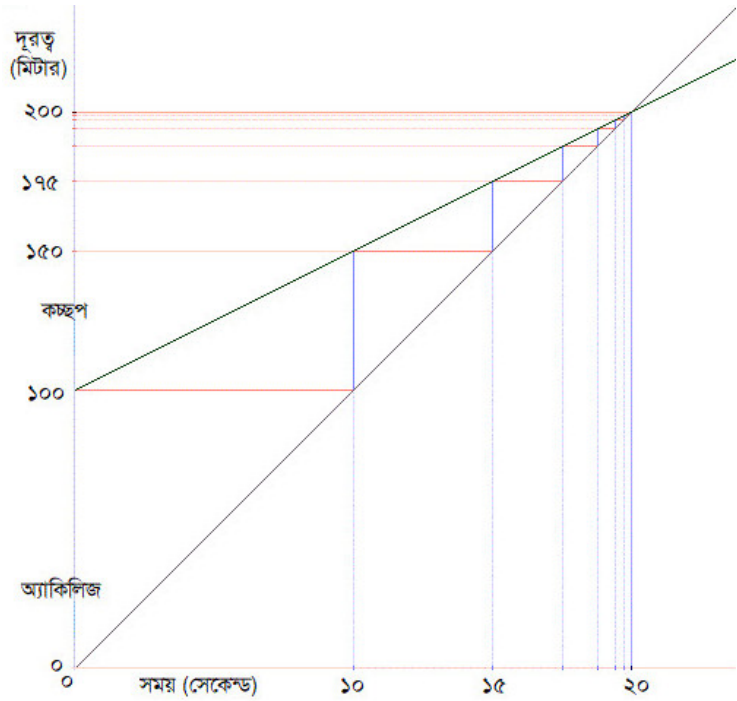
(Illusion)

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Enlightening Symbols

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(Convergent) (Divergent) + + + ...

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

,

Dichotomy Paradox ,

$$\frac{x}{2} \qquad \frac{x}{4}, \frac{x}{8} \qquad \frac{x}{8} \dots \qquad x \quad x \qquad \frac{x}{2}$$

$$\{\dots, \frac{1}{16}, \frac{1}{8}, \frac{1}{4}, \frac{1}{2}, 1\}$$

!

, ,

, Halfway to Zero ,

$$\frac{1}{2} + \frac{1}{3} + \frac{1}{4} + \frac{1}{5} + \dots$$

(-Divergent) !

Chapter 3

Chapter 4



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