

$$A_n = A_{n-2} + A_{n-1}$$

$\frac{A_n}{A_{n-1}}$  converges on 1.618033989...

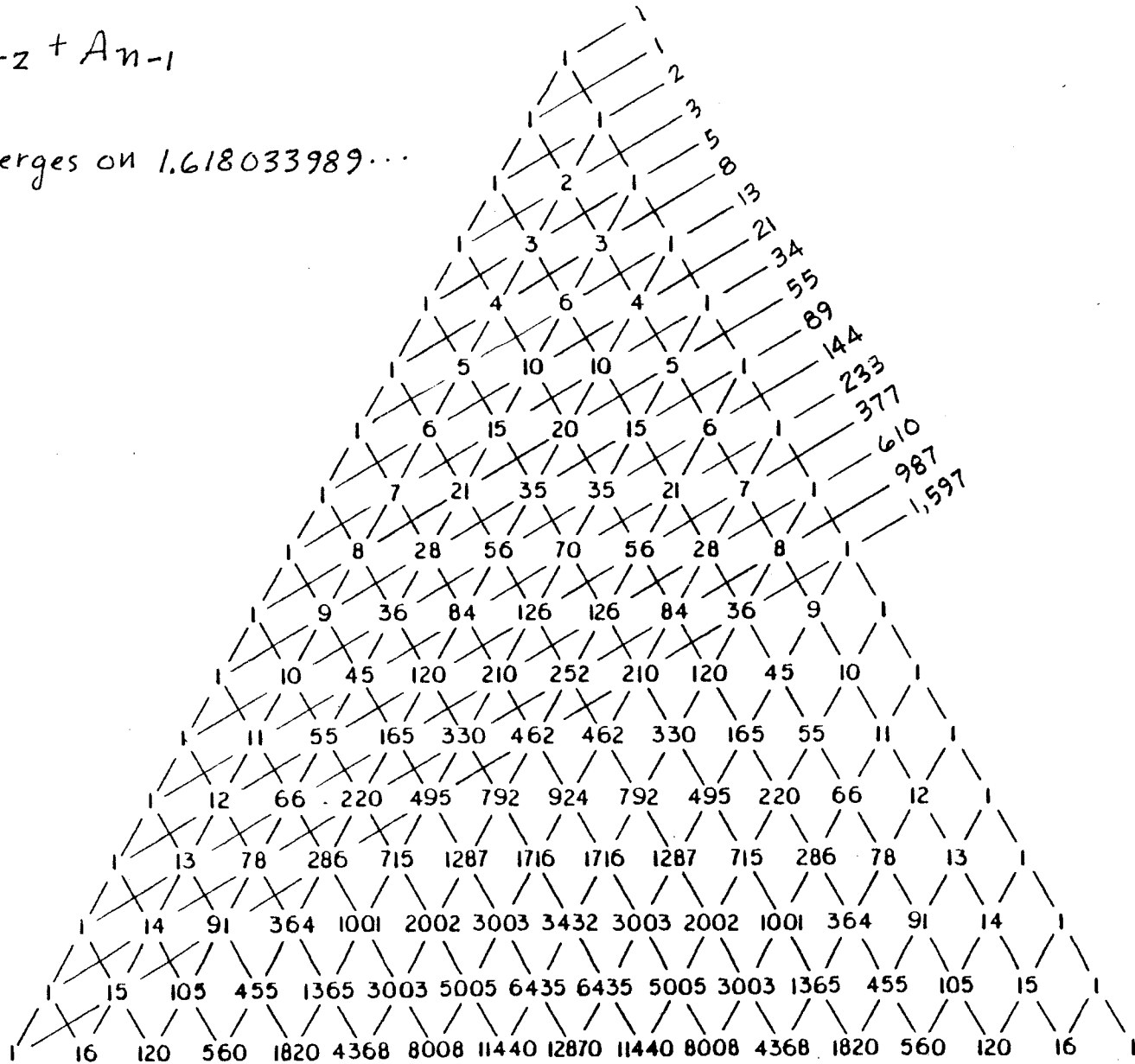


Fig 1

The Scales of Mt. Meru  
 © 1993 by Erv Wilson  
 (work in progress, all rights reserved)

Ref: "On the use of series in Hindu Mathematics  
 A.N. Sing, Osiris Vol I, PP 623-624, 1936  
 "Recurrent Sequences and Pascal's Triangle"  
 Thomas M. Green, Mathematic Magazine Vol. 41, 1968

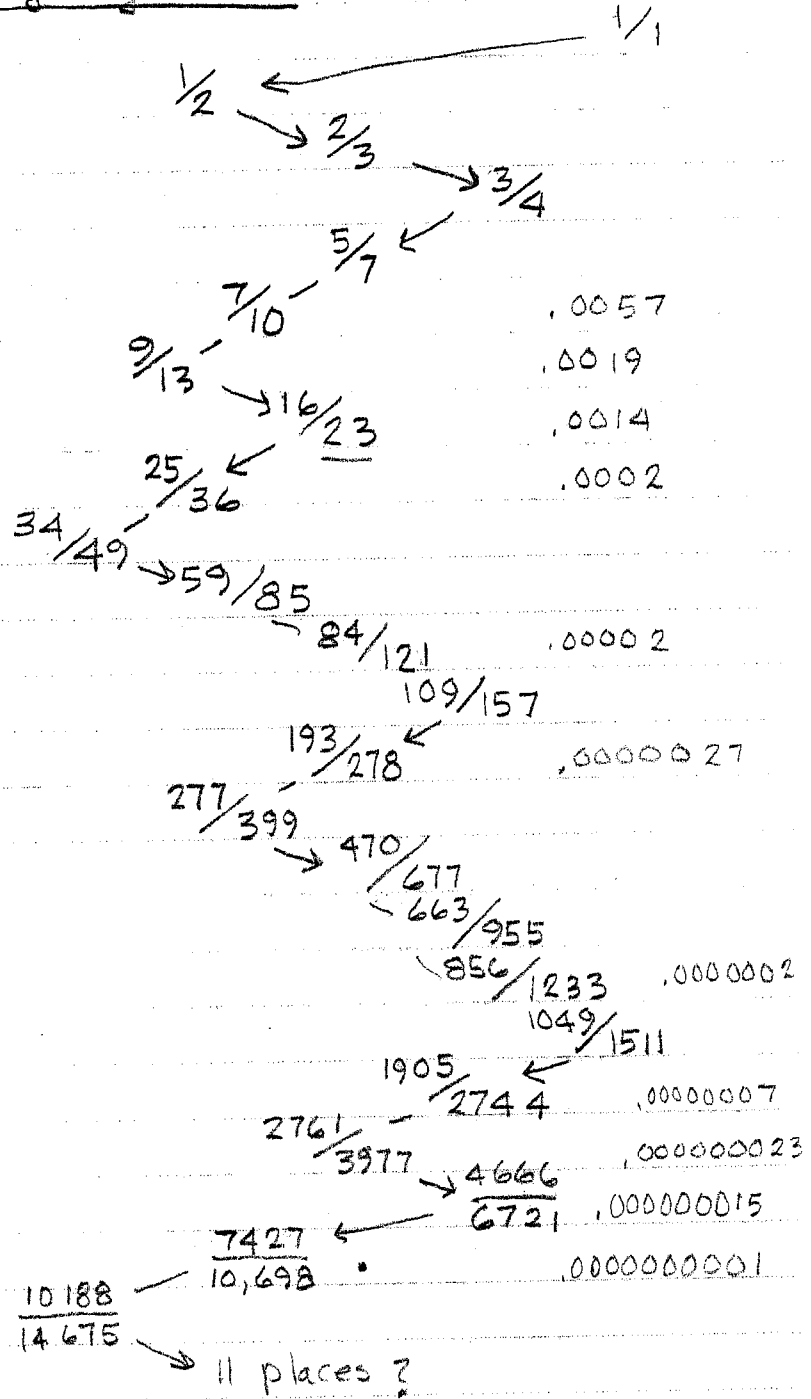
Meru 1. 1.618 033 988 75..

Log<sub>2</sub> - .694 241 913 631..

1/x Pattern

		.694	0/1
←	1	.440	
→	2	.270	
←	3	.696	
→	1	.436	
←	2	.289	
→	3	.448	
←	2	.228	
→	4	.373	
←	2	.676	
→	1	.478	
←	2 (2)	.088)	
	2 (11)	.357)	

Zig-Zag Pattern



$$B_n = B_{n-3} + B_{n-1}$$

$\frac{B_n}{B_{n-1}}$  converges on 1.465571232...

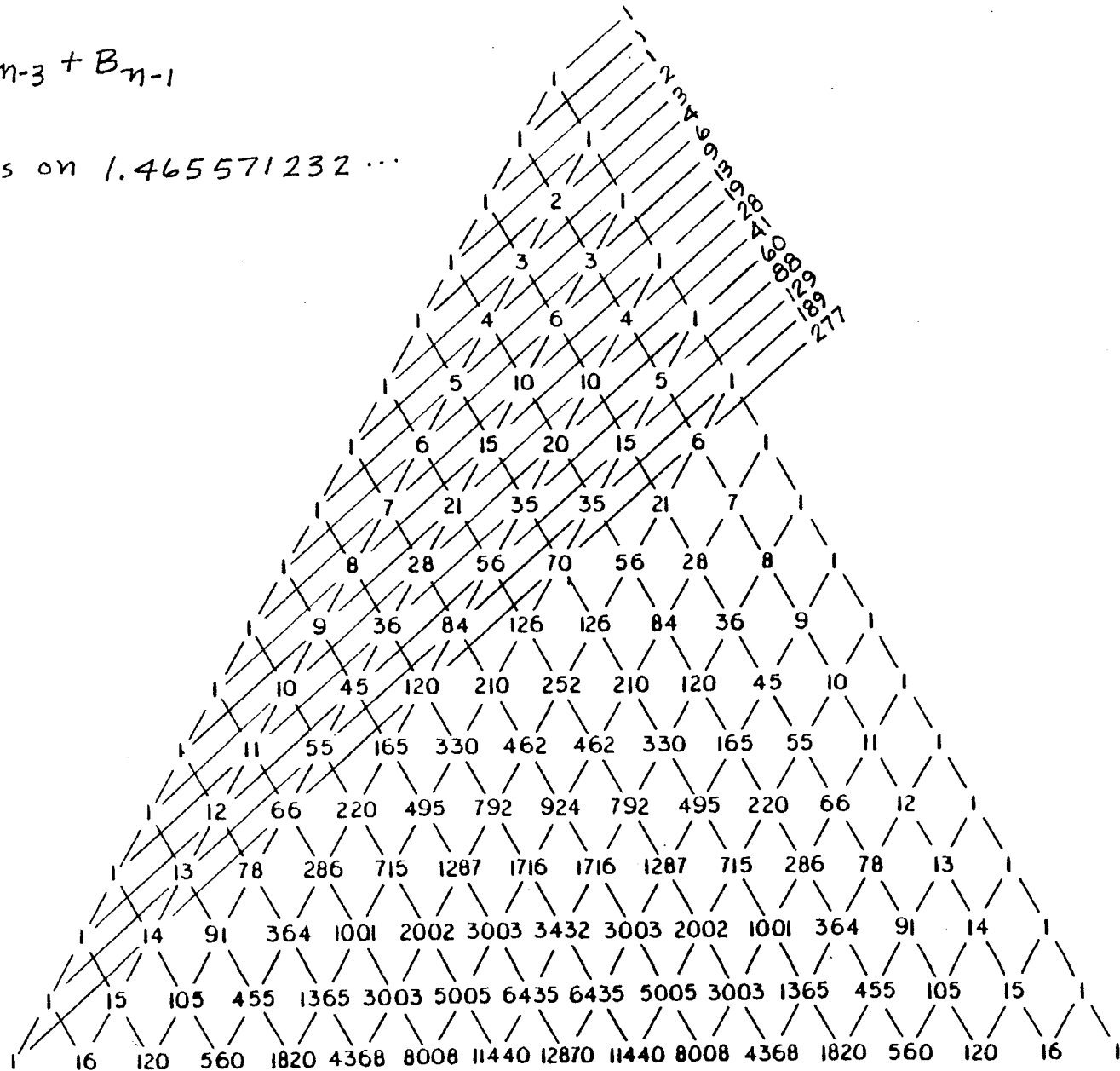


Fig. 2

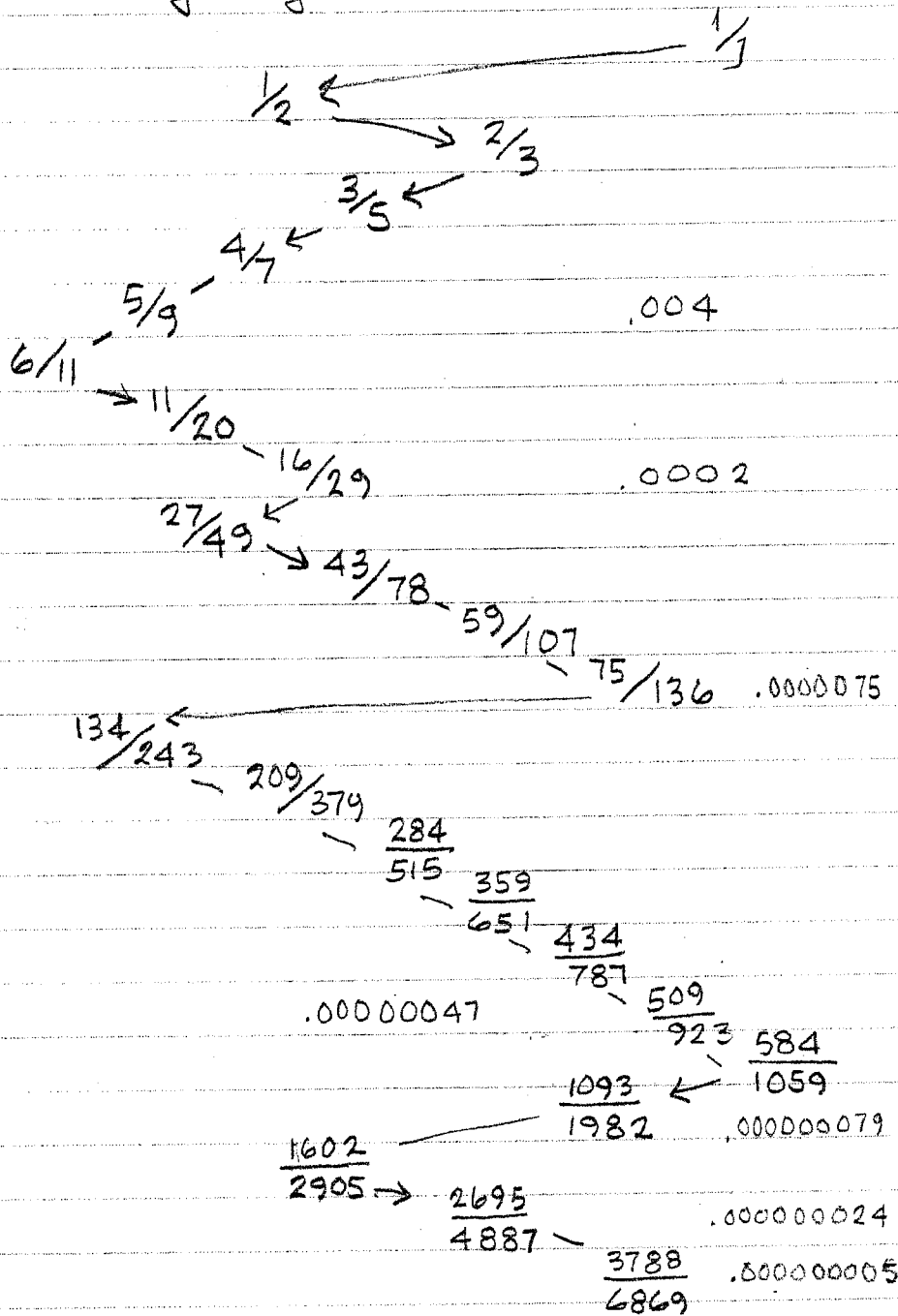
Meru 2, 1.46557123188...

$\log_2 \dots .551463089748\dots$

1/n Pattern

Zig-Zag Pattern

		.551
←	1	.813
→	1	.229
↔	4	.357
→	2	.794
←	1	.258
→	3	.865
←	1	.155
→	6	.423
←	2	.361
→	2	.766
?	1	.305
?	3	.274



$$C_n = C_{n-3} + C_{n-2}$$

$\frac{C_n}{C_{n-1}}$  converges on 1.324717957

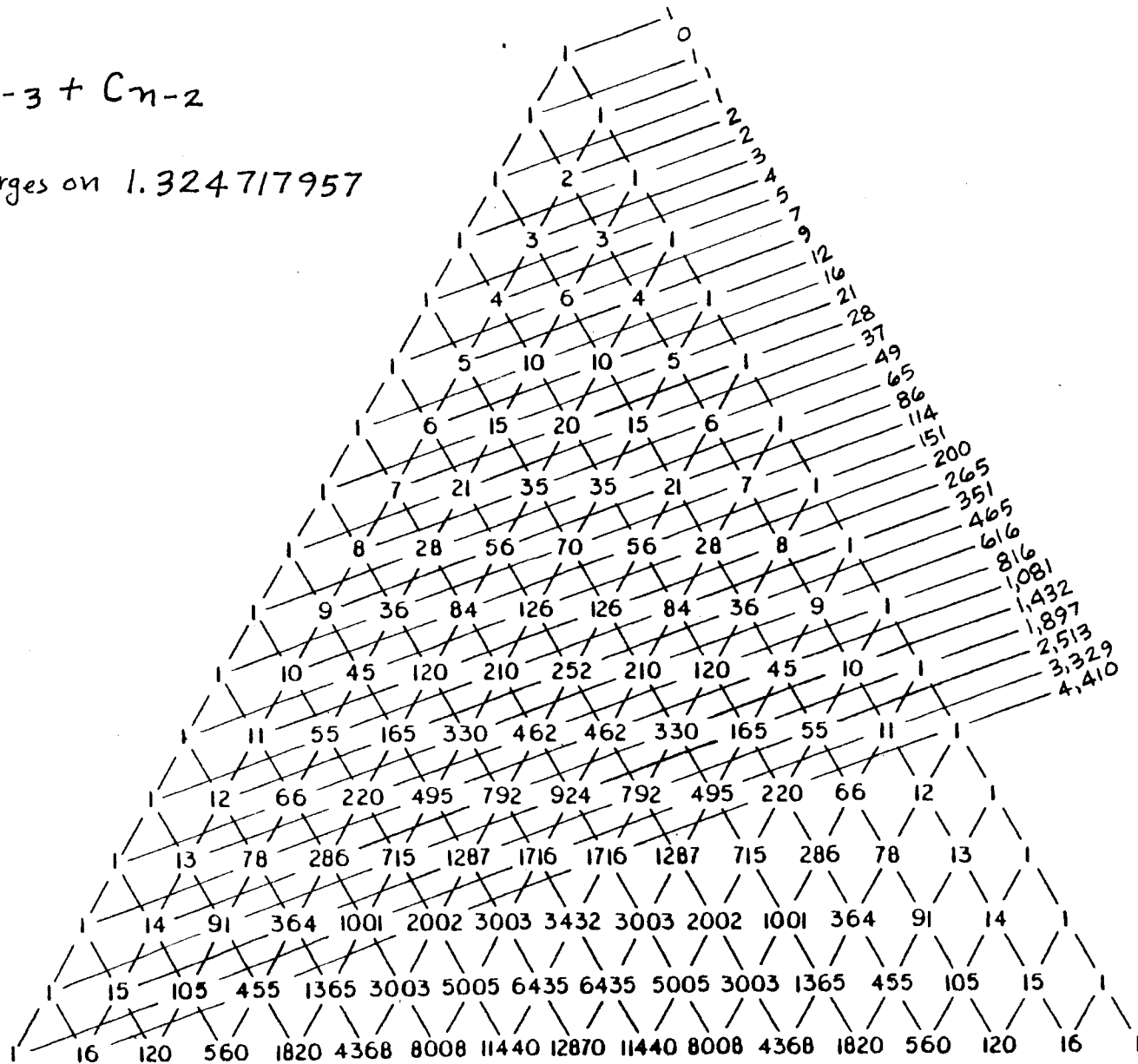


Fig. 3

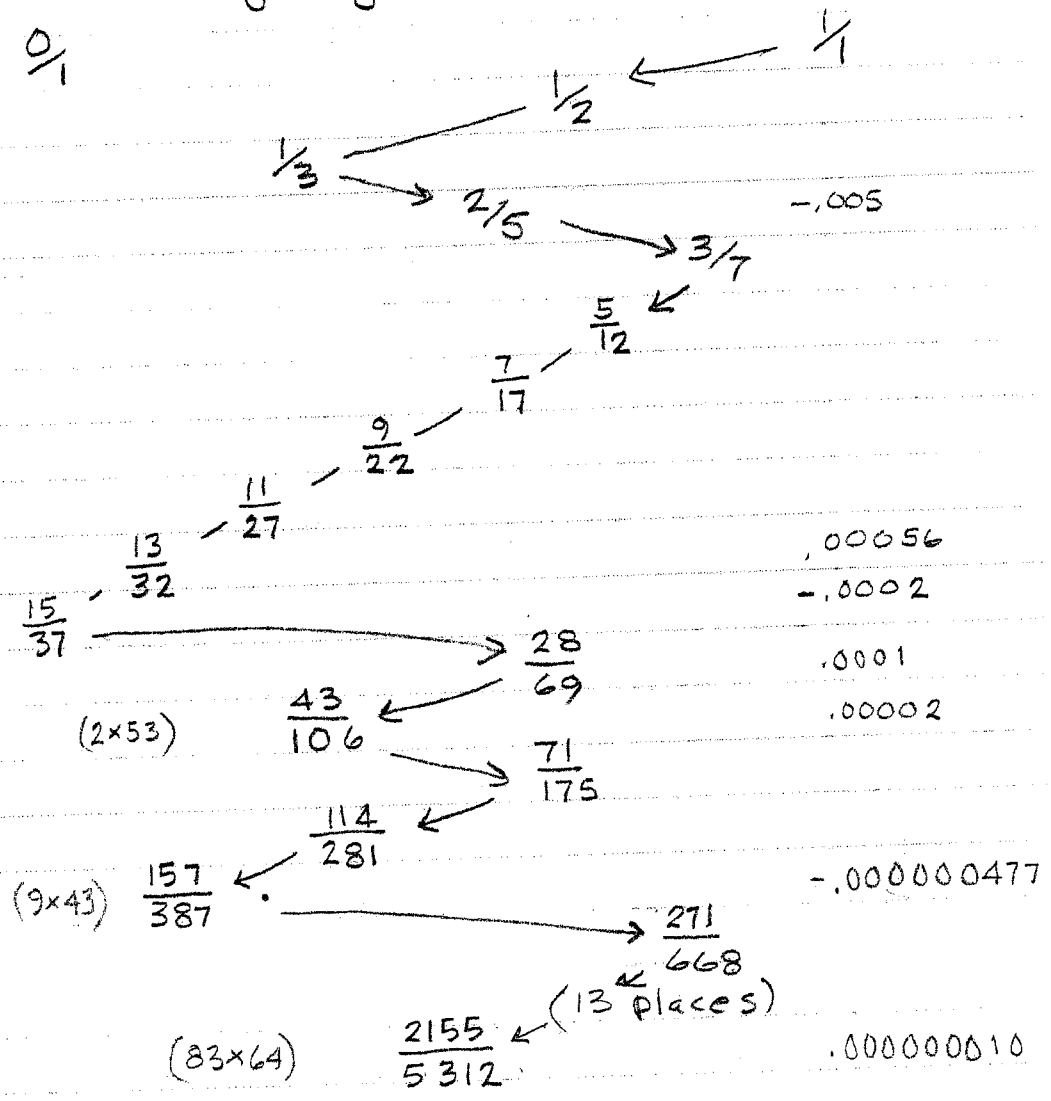
Meru 3, 1.32471795725 (also Meru 6)

Log2 .405685231382..

1/n Pattern

		.405
←	2	.464
→	2	.150
←	6	.635
→	1	.572
←	1	.745
→	1	.341
←	2	.929
→	1	.075
←	13	.275
?	(3	.625
?	1	.598)

Zig-Zag Pattern



$$D_n = D_{n-4} + D_{n-1}$$

$\frac{D_n}{D_{n-1}}$  converges on 1.380277569

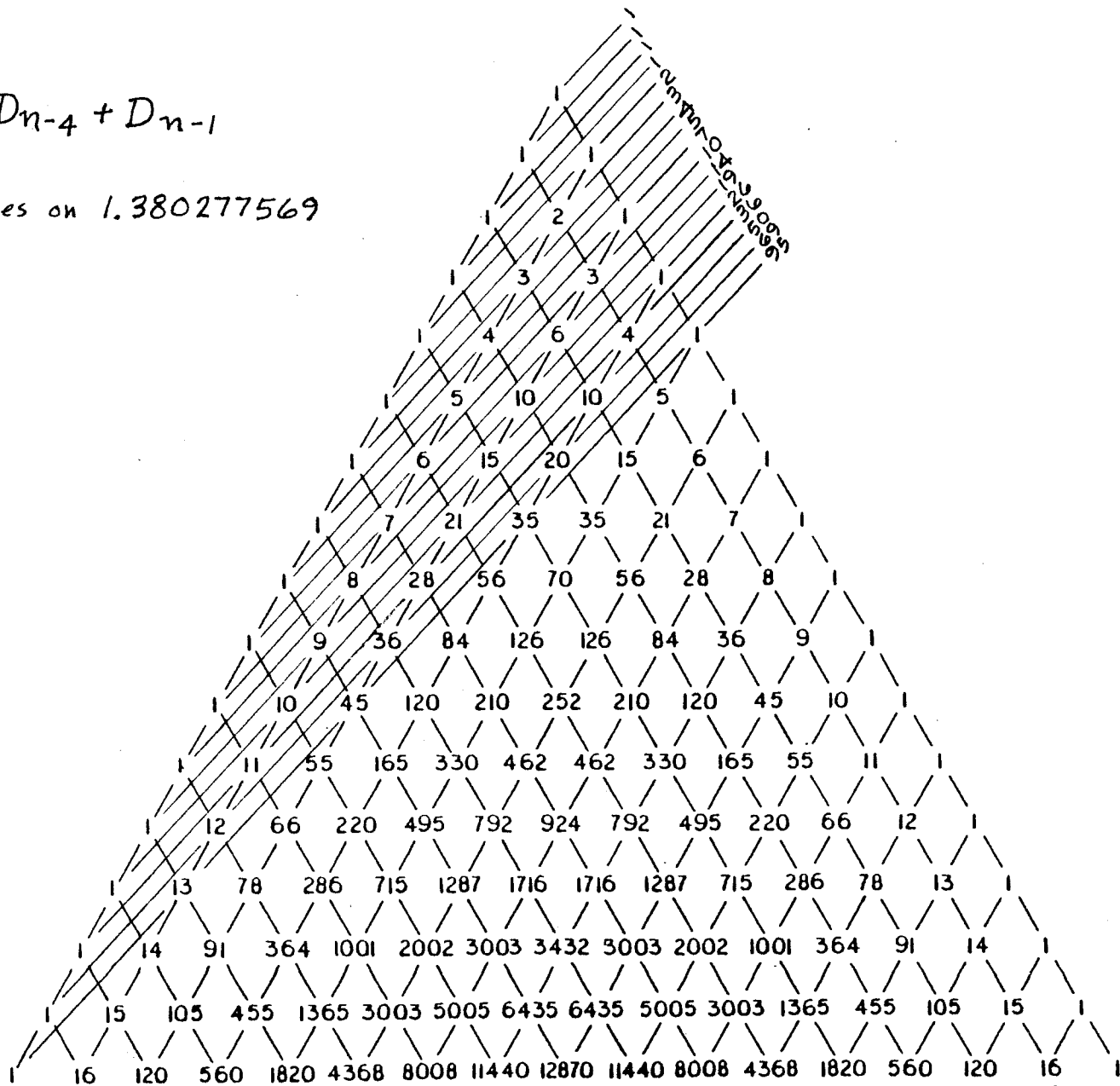


Fig. 4

(Meru 4.) 1.380277569

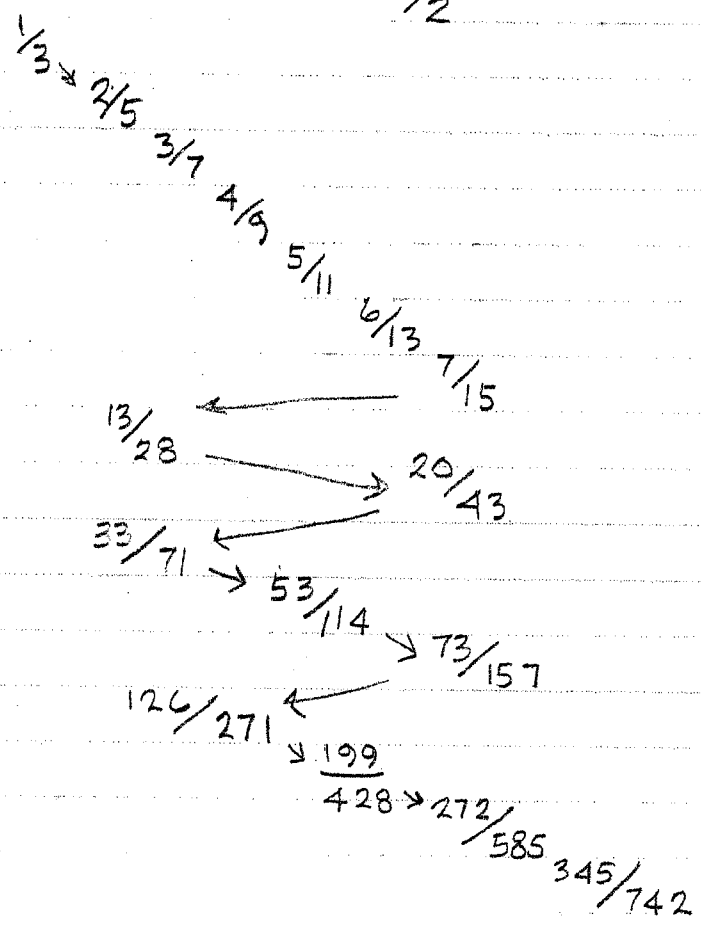
$\log_2 .464958417209\dots$

1/2

0  
|

1/2 ← 1/1

- ← 2 .464
- 6 .150
- ← 1 .634
- 1 .576
- ← 1 .735
- 1 .360
- ← 2 .774
- 1 .290
- ← 3 .441
- 2 .267
- 3 .737
- 1 .356
- 2 .806





$$E_n = E_{n-4} + E_{n-3}$$

$\frac{E_n}{E_{n-1}}$  converges on 1.220744085

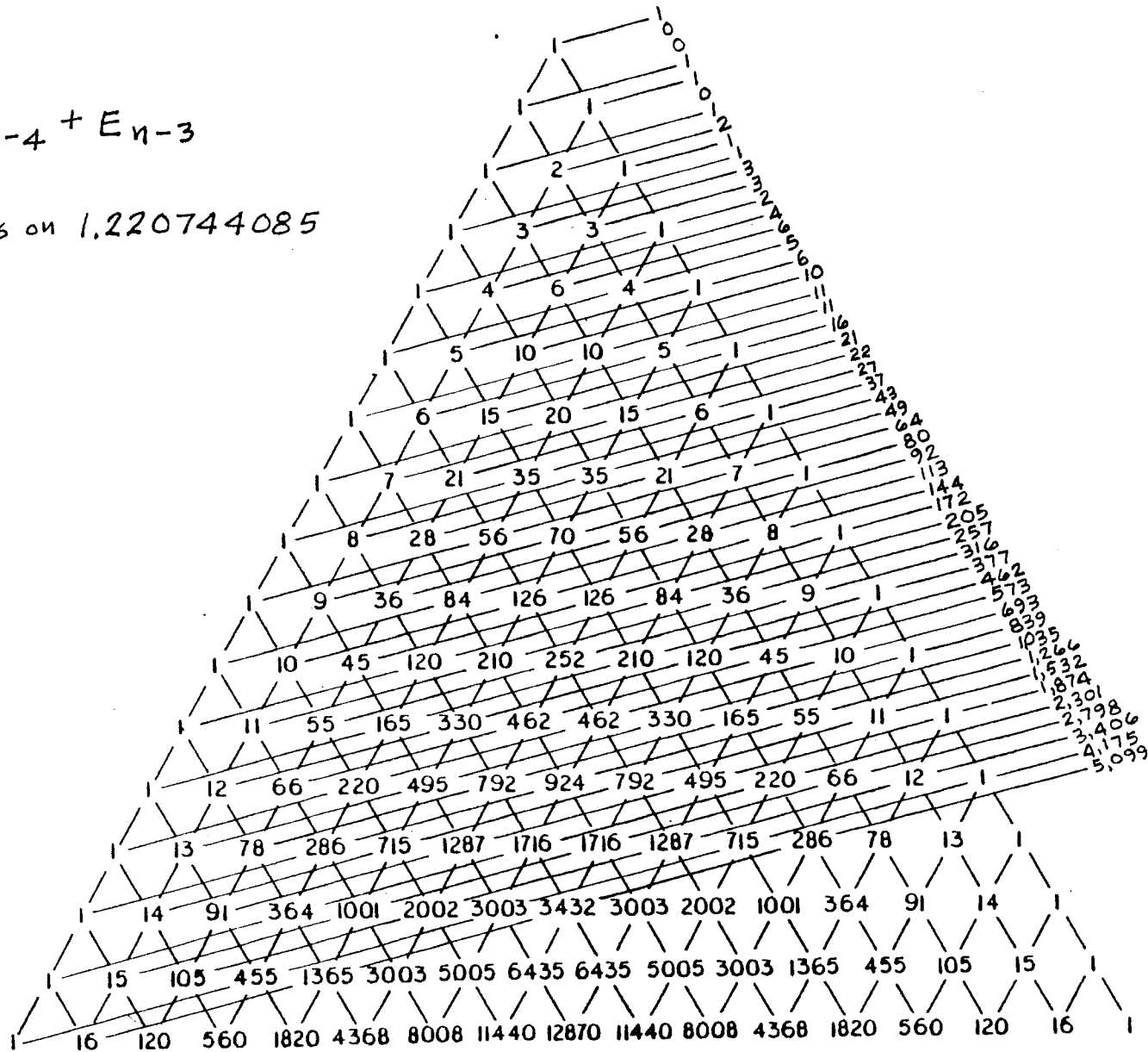


Fig. 5

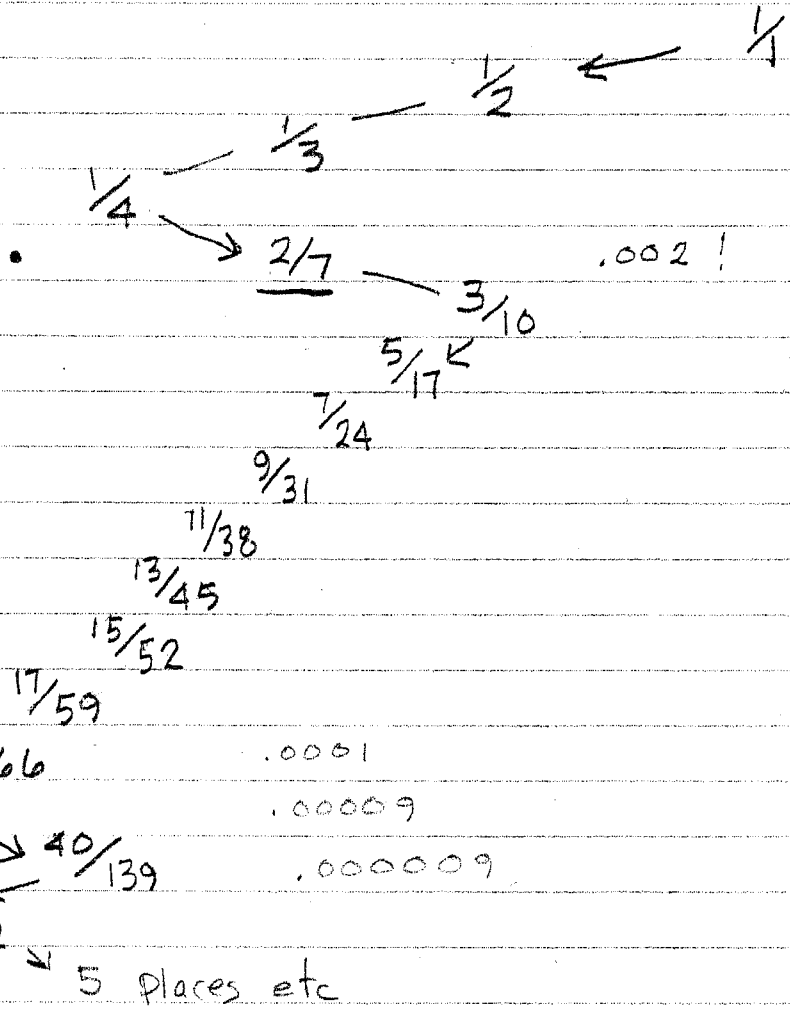
Meru 5, 1.22074408461...

$\log_2 = .287766787088...$

1/N Pattern

		.287
←	3	.475
→	2	.104
←	9	.543
→	1	.839
←	1	.191
	5	.227
	4	.396
	2	.525
	1	.904
	1	.105
	(9	.449)

0/1



$$F_n = F_{n-5} + F_{n-1}$$

$\frac{F_n}{F_{n-1}}$  converges on 1.324717957

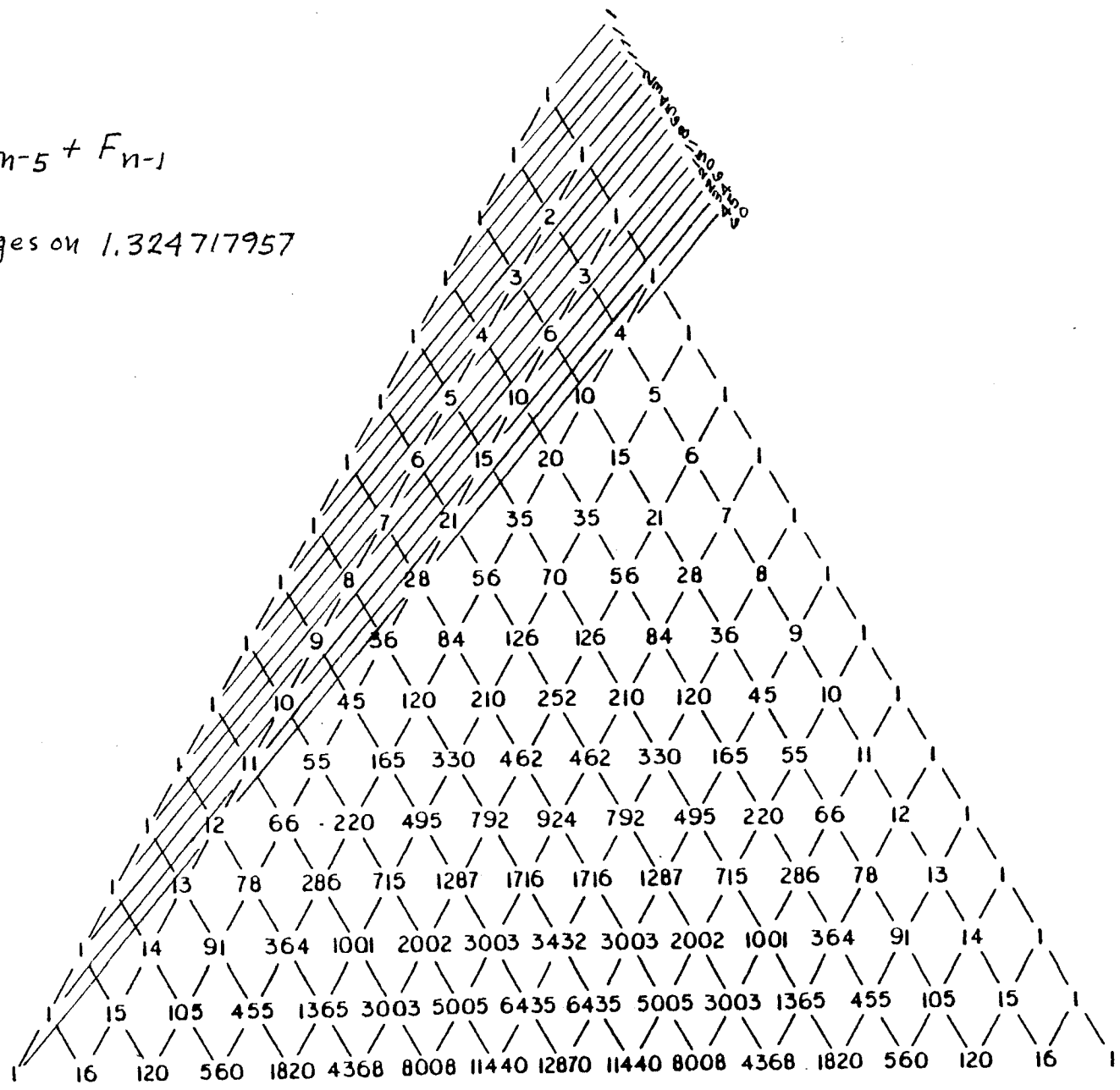


Fig. 6

Meru 3, 1.32471795725

(also Meru 6)

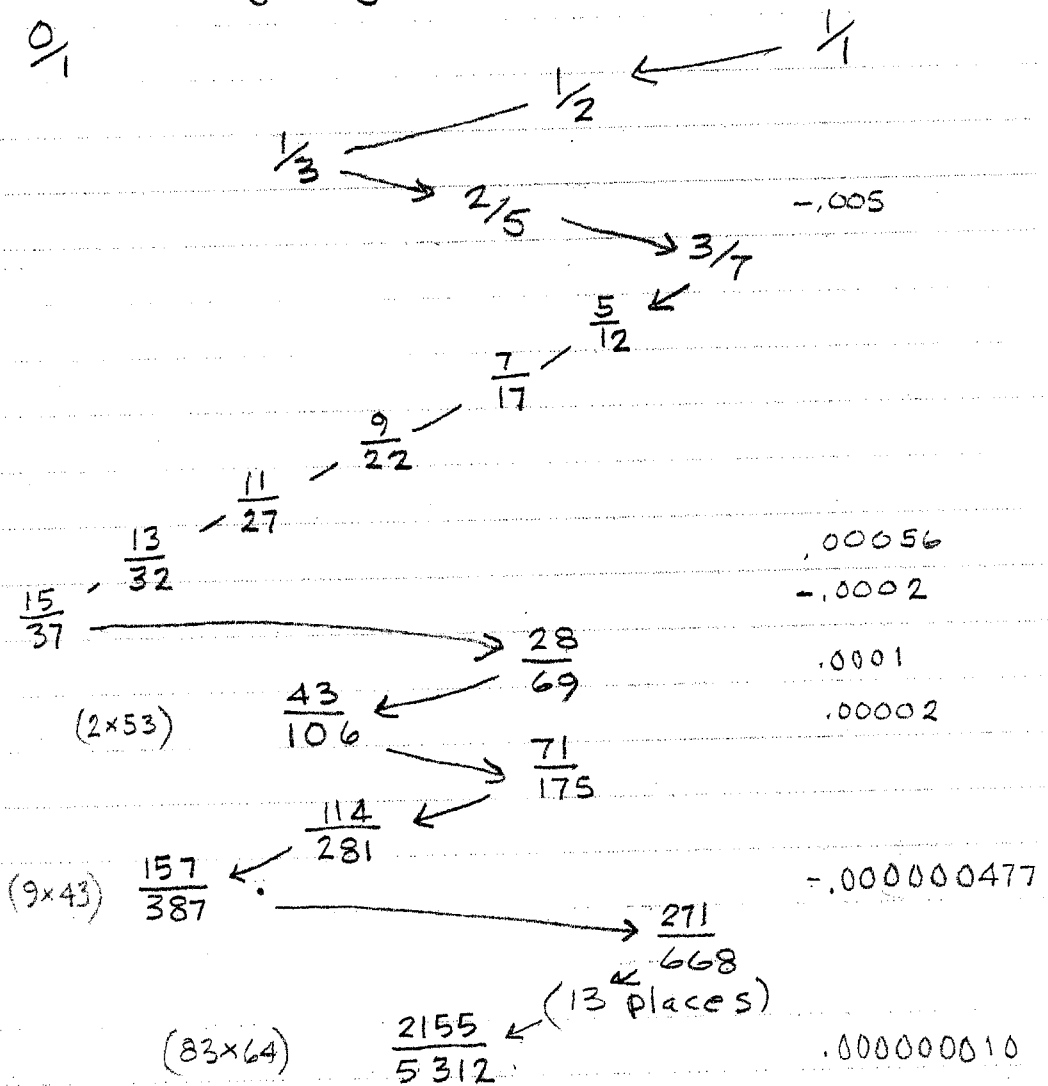
Log 2 .405685231382..

1/x Pattern

		.405
←	2	.464
→	2	.150
←	6	.635
→	1	.572
←	1	.745
→	1	.341
←	2	.929
→	1	.075
←	13	.275
?	(3	.625
?	1	.598)

Zig-Zag Pattern

0/1



$$G_n = G_{n-5} + G_{n-2}$$

$\frac{G_n}{G_{n-1}}$  converges on 1.236505703

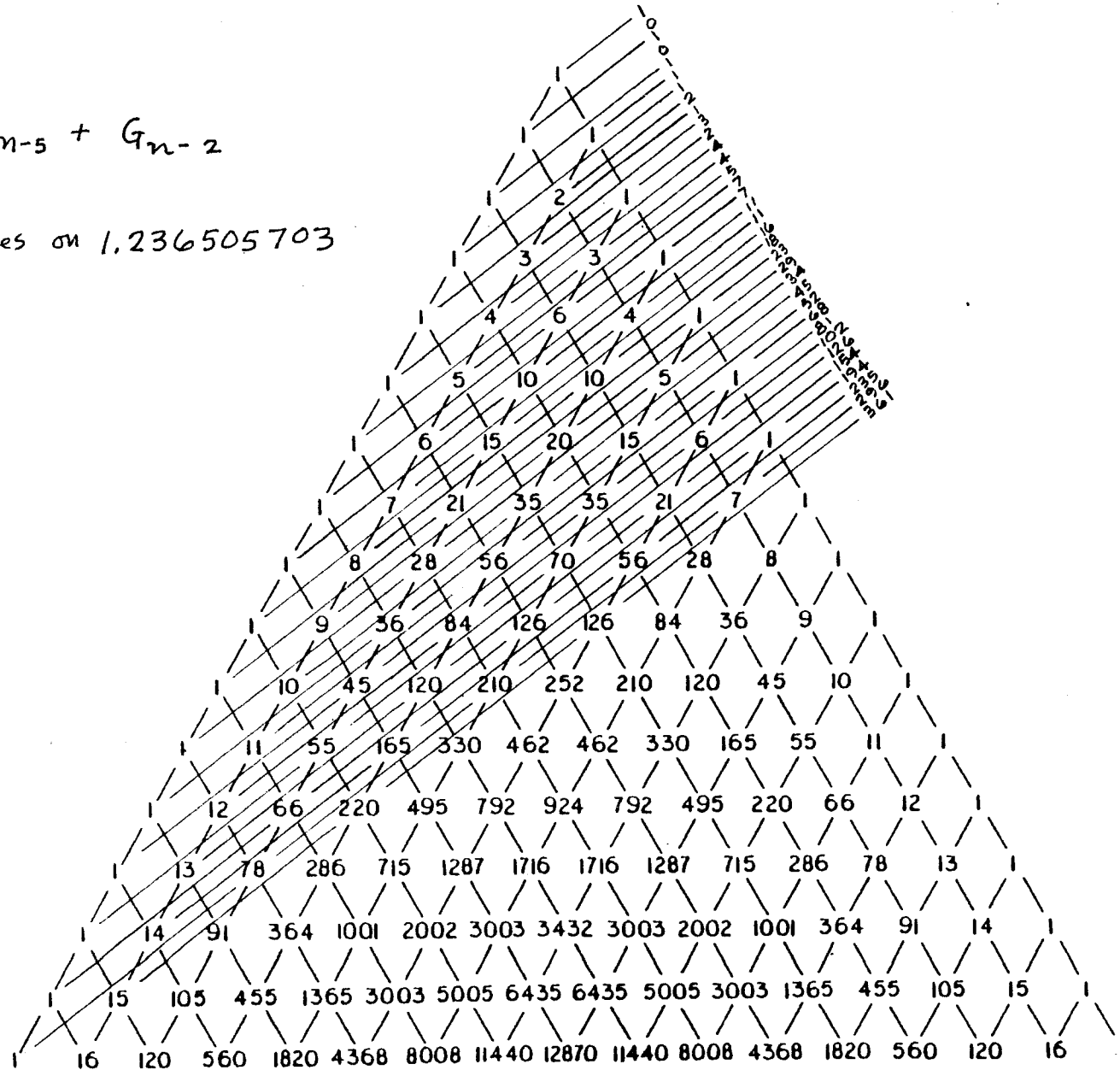


Fig. 7

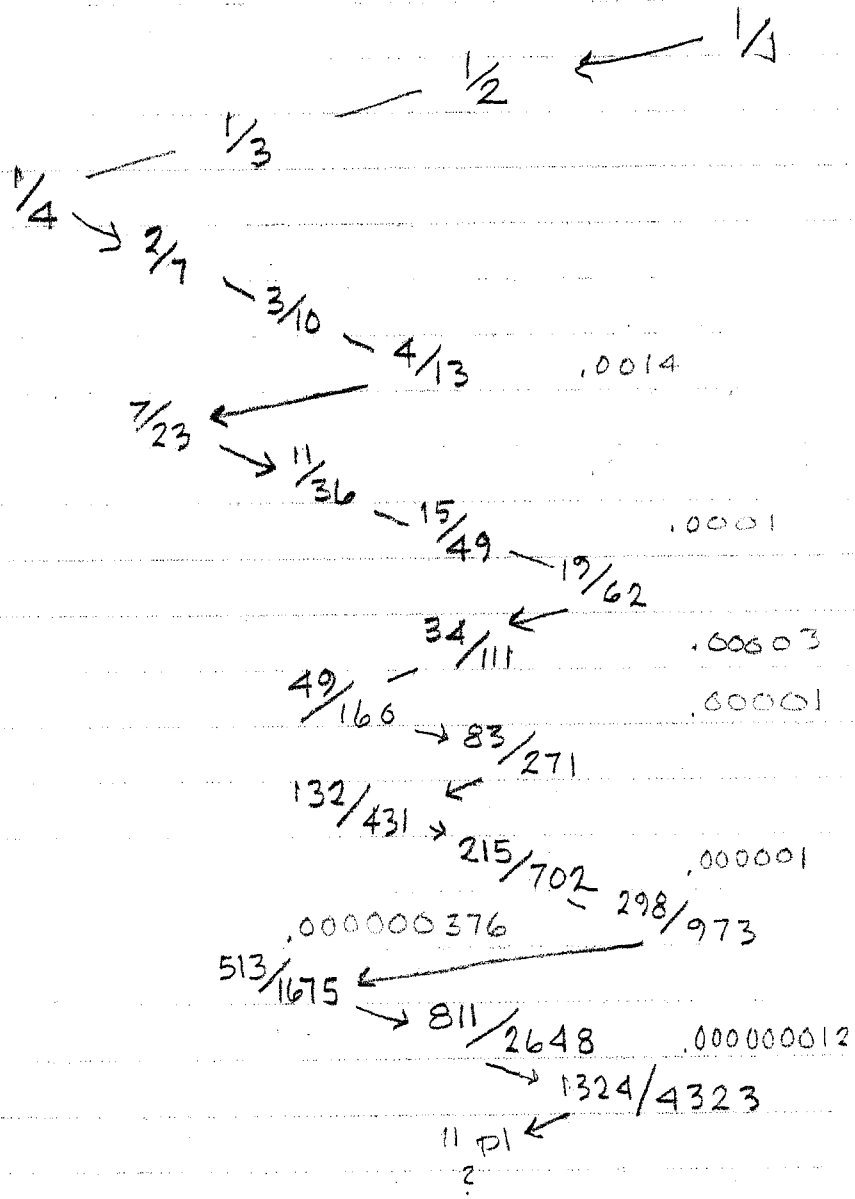
Meru 7 1.23650570339...

$\log_2 .306268894183...$

1/2

		.306
←	3	.265
→	3	.772
←	1	.295
→	3	.387
←	2	.578
→	1	.727
←	1	.373
→	2	.676
←	1	.479
→	2	.086
(11	.509)	?)

0/1



$$H_n = H_{n-5} + H_{n-3}$$

$\frac{H_n}{H_{n-1}}$  converges on 1.193859111

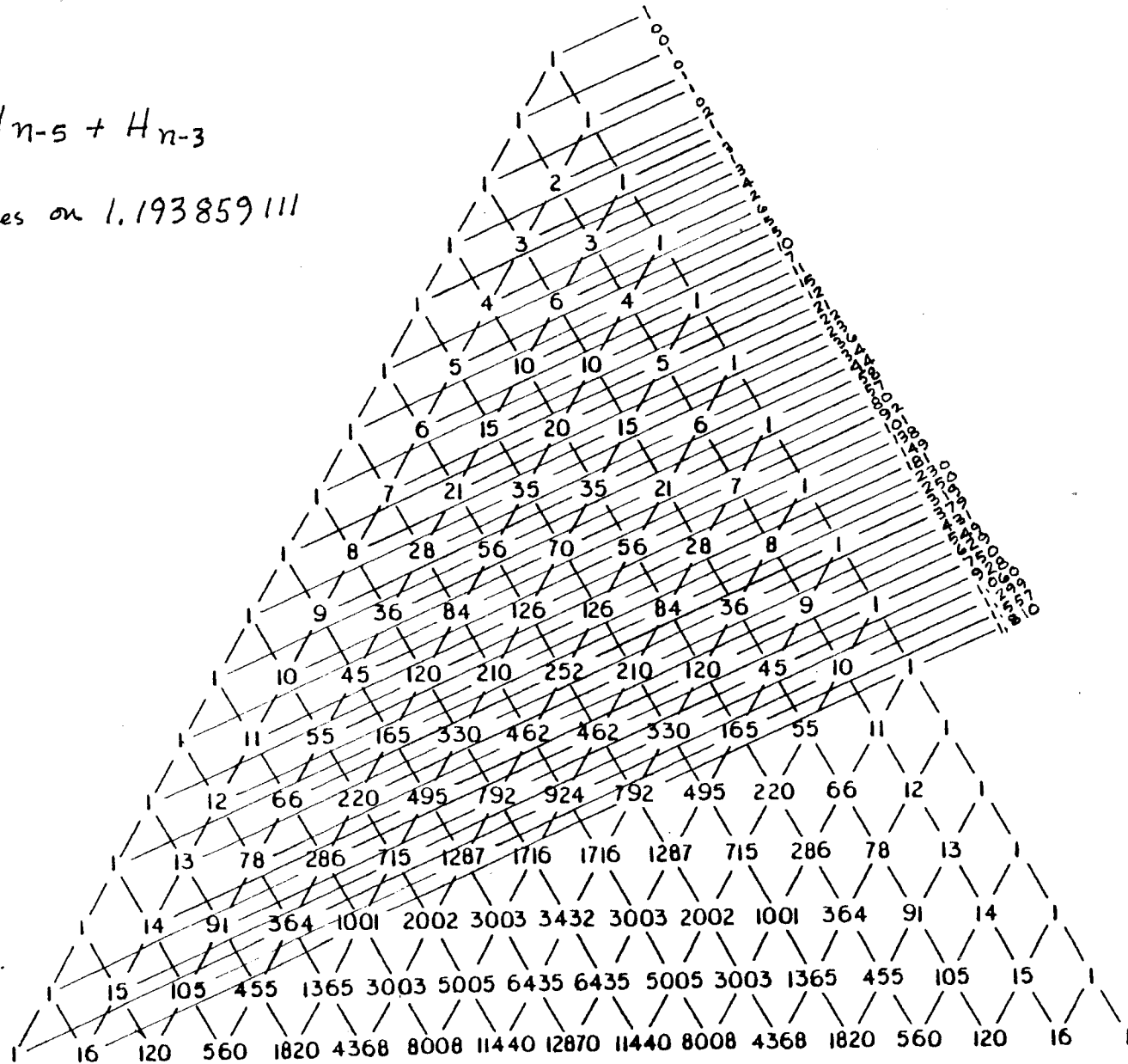


Fig. 8

Meru 8, 1.19385911132..

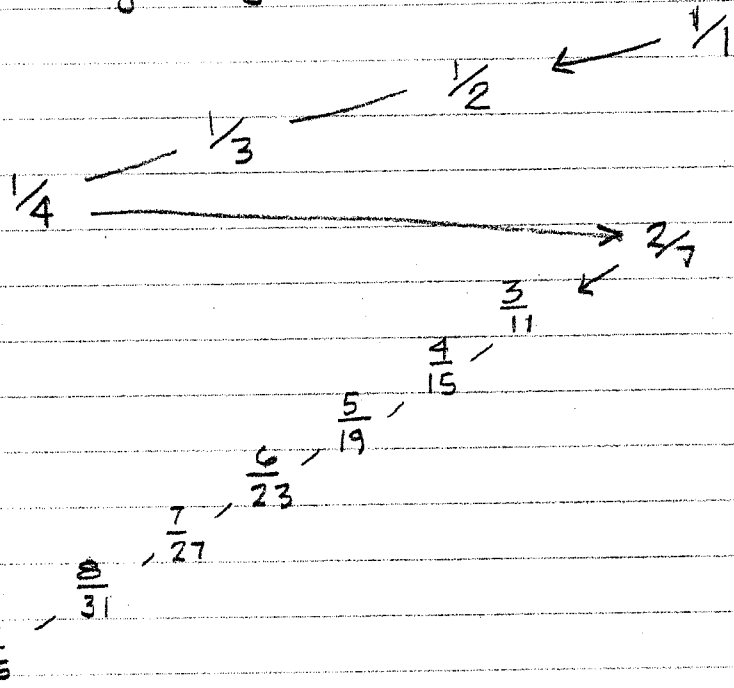
Log<sub>2</sub> .255632592555..

1/N Pattern

zig-zag

←	3	.911
→	1	.096
←	10	.346
→	2	.889
←	1	.124
→	8	.013
←	73	.265
	3	.765

0/1



$\frac{12}{47} \rightarrow \frac{23}{90}$		.000018
$\frac{57}{223} \leftarrow \frac{34}{133}$	(7x19)	-.000077
$\frac{295}{1154} \leftarrow \frac{329}{1287}$		.0000065
$\frac{21864}{85529} \leftarrow \frac{21569}{84375}$	(8 places)	-.00000010
	73 places	3.7000000E-11



$$I_n = I_{n-5} + I_{n-4}$$

$\frac{I_n}{I_{n-1}}$  converges on 1.167303978

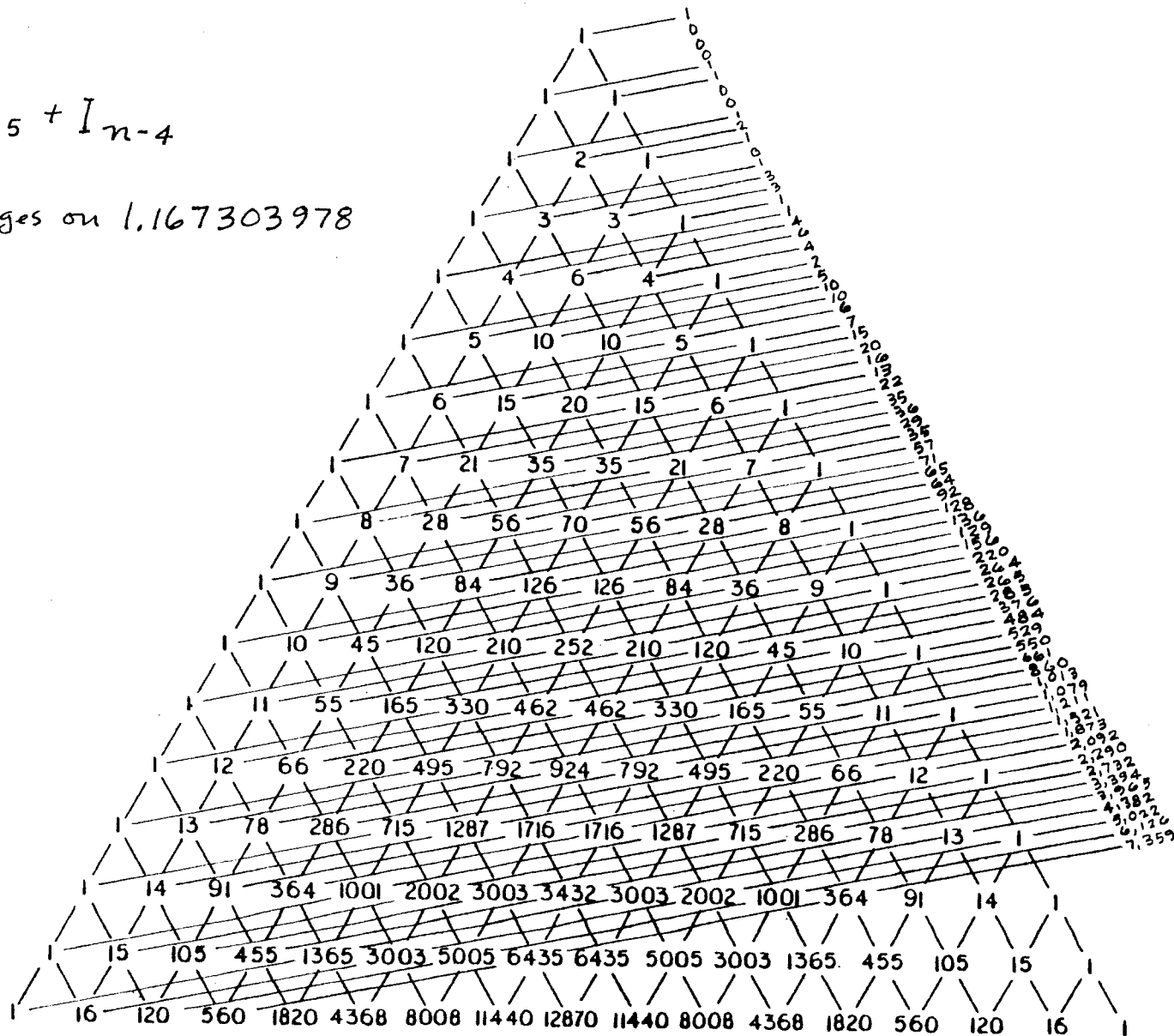


Fig. 9

Meru 9 = 1.16730397826..

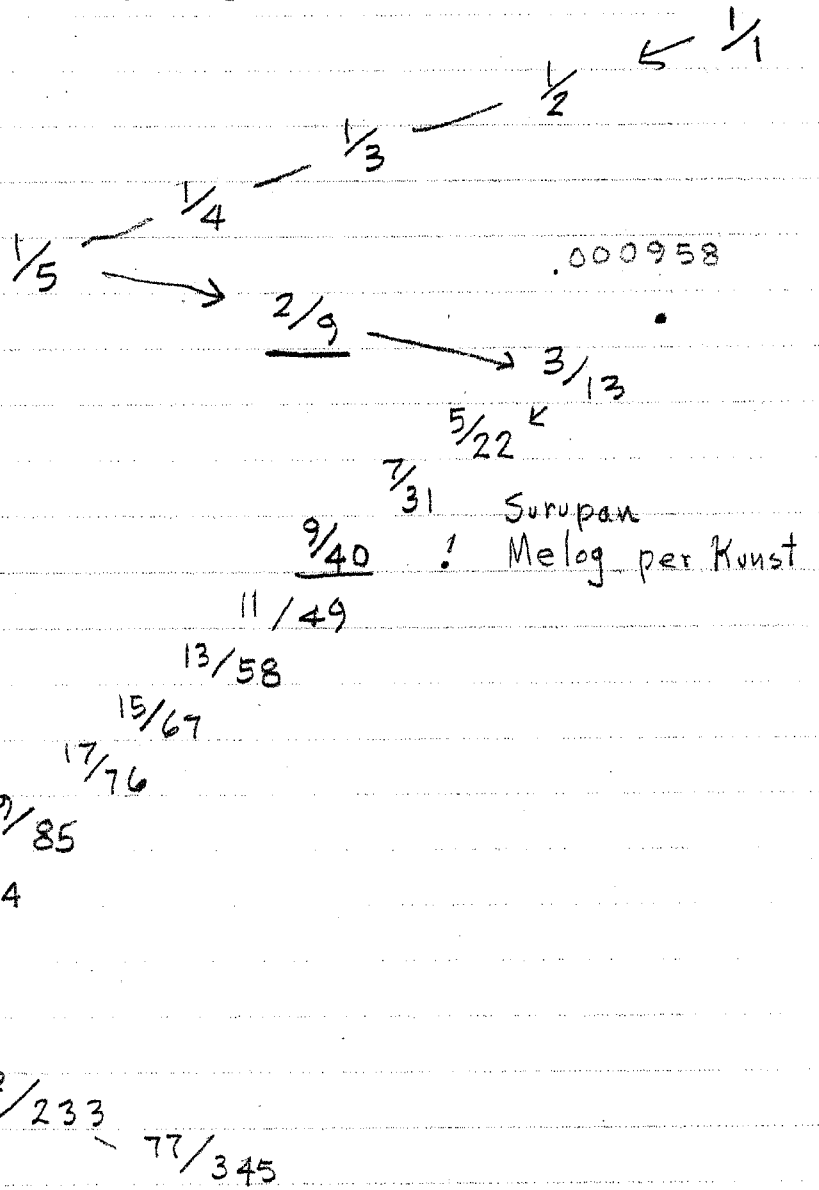
$\log_2$  : .223180302967..

1/x Pattern

		.223
←	4	.480
→	2	.080
←	12	.441
→	2	.265
	3	.766
	1	.305
	3	.276
	3	.613
	1	.631

Zig-Zag Pattern

0/1



.000958