

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

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

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

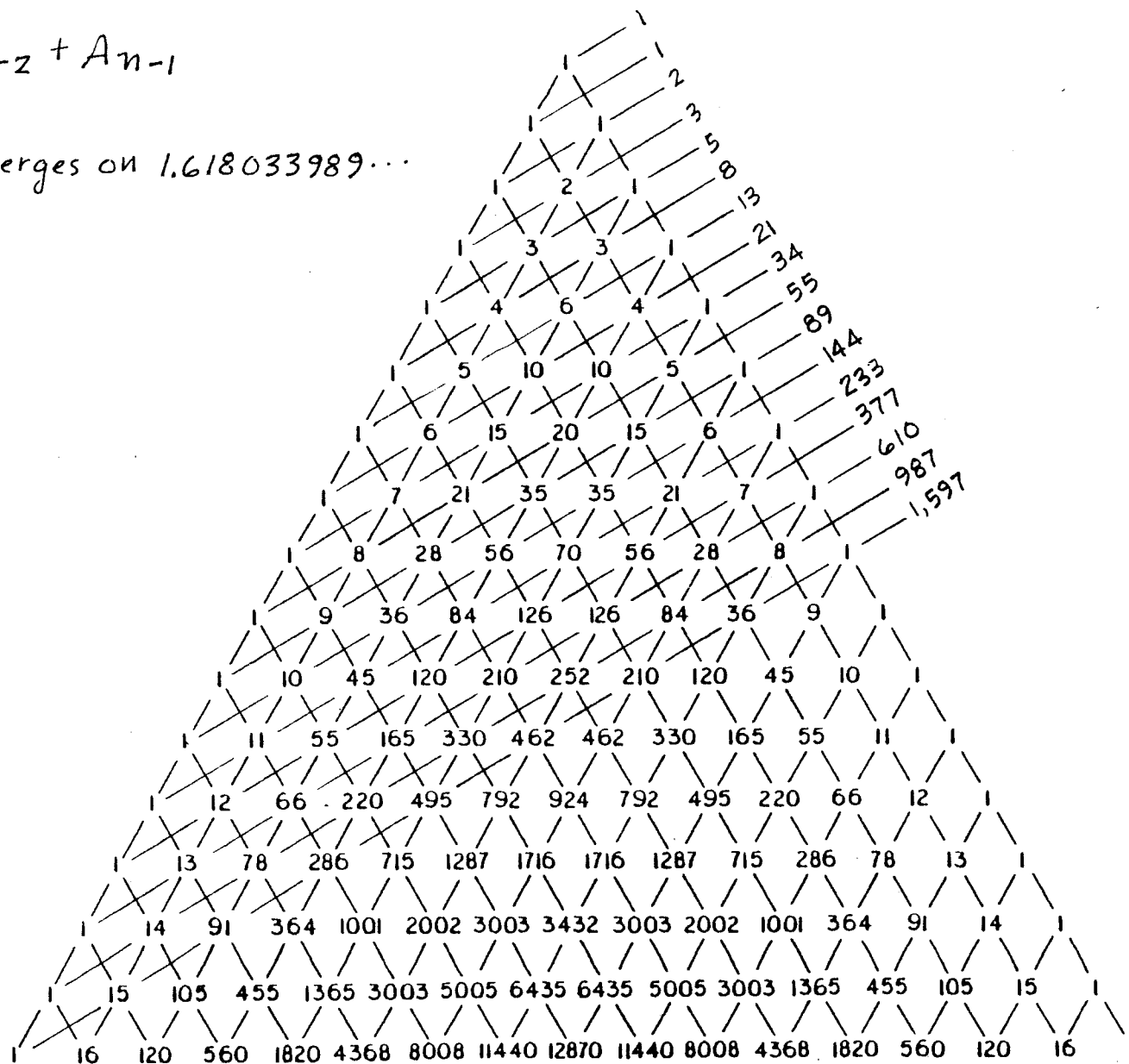


Fig 1

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

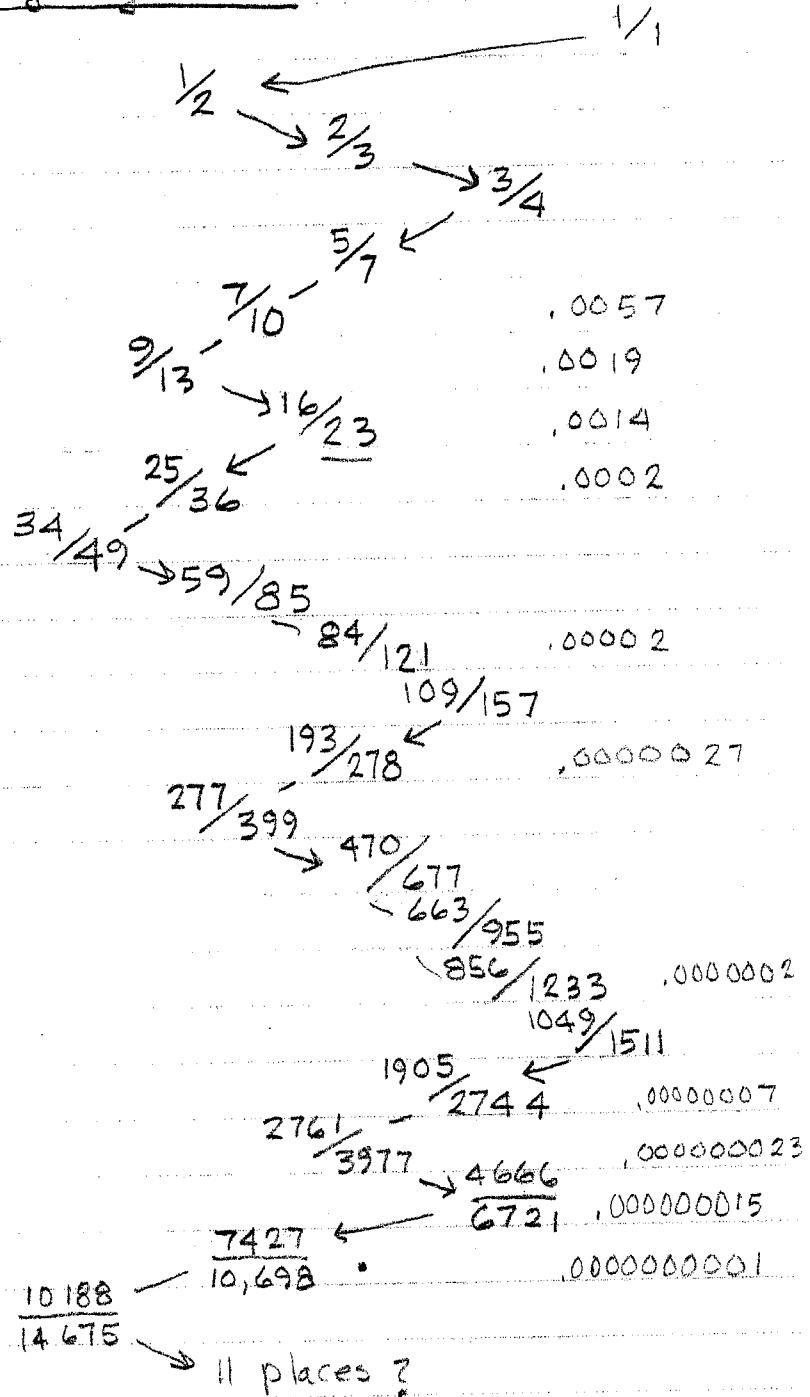
Meru 1. 1.618 033 988 75..

$\log_2 - .694 241 913 631..$

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



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

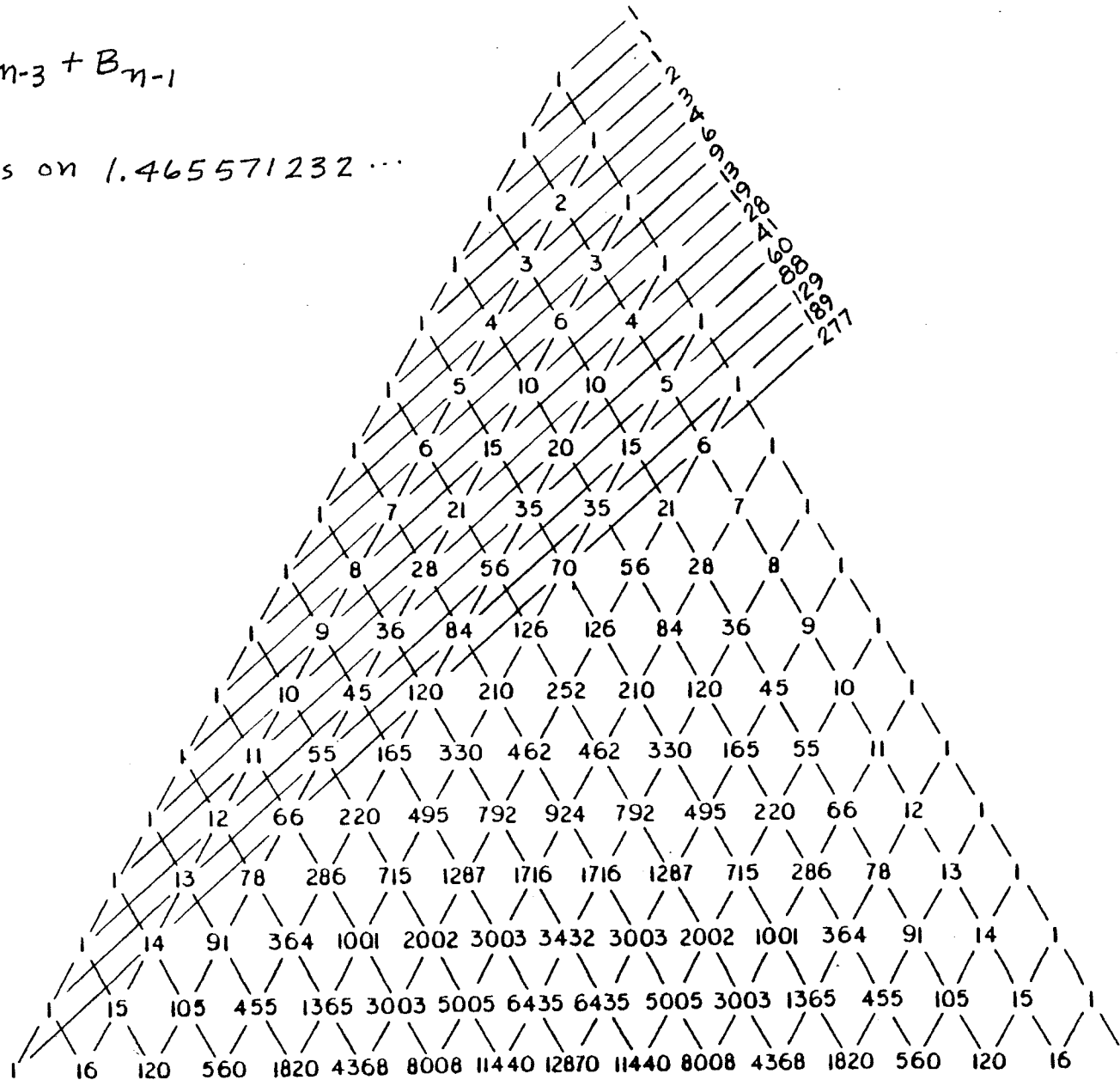
$$\frac{B_n}{B_{n-1}} \text{ converges on } 1.465571232 \dots$$


Fig. 2

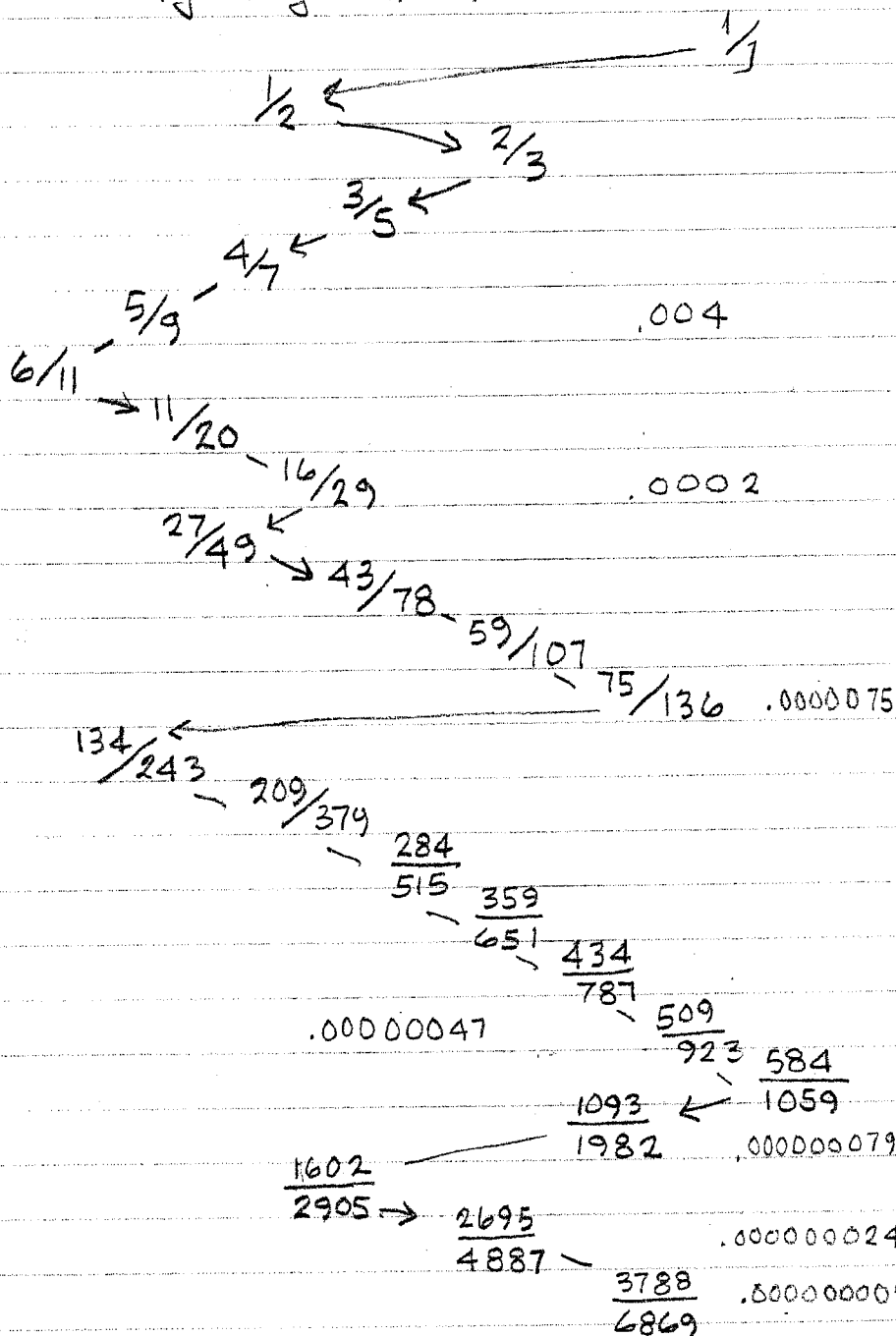
Meru 2, 1.46557123188...

$\log_2 \dots .551463089748 \dots$

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)



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

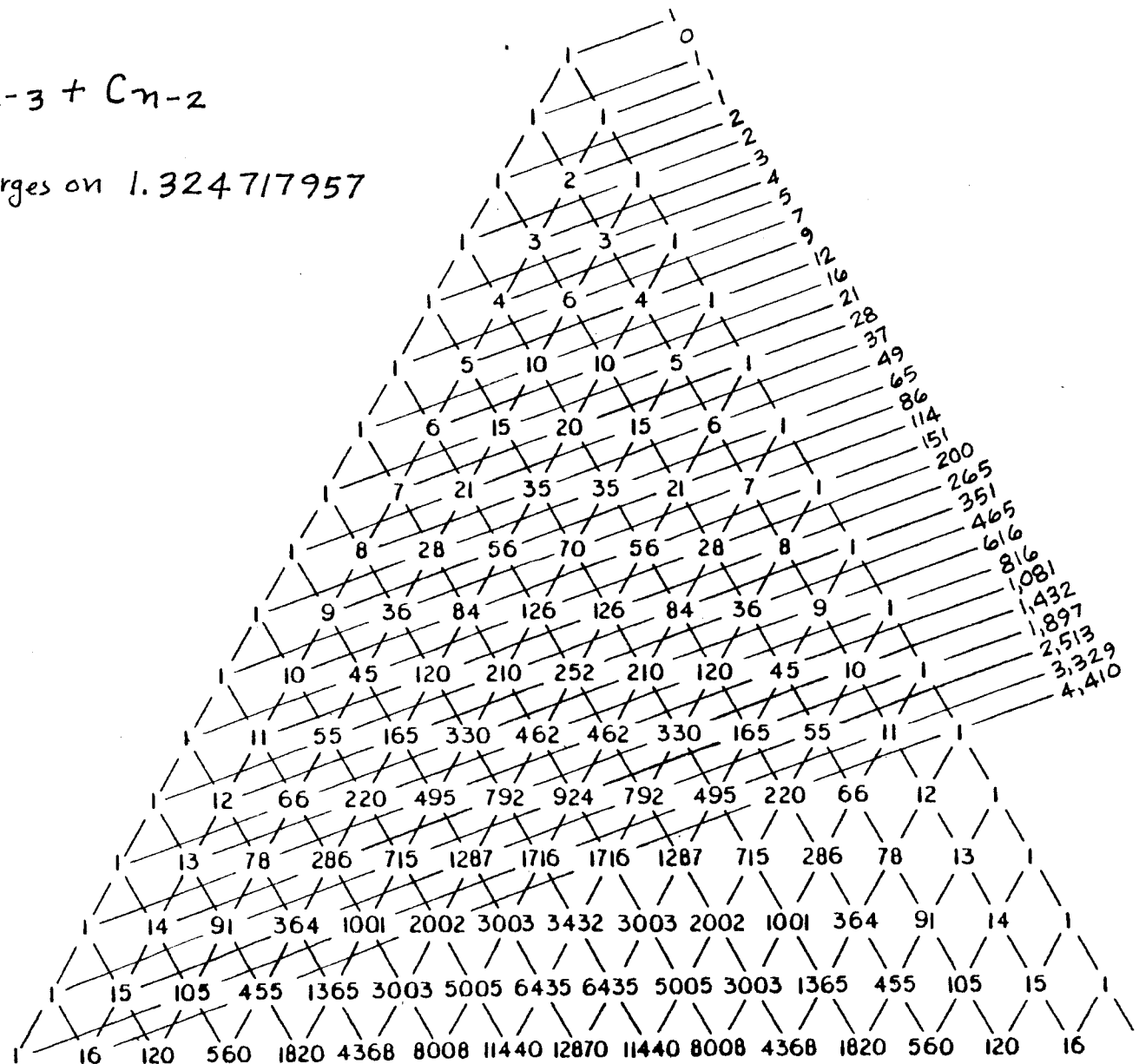
$$\frac{C_n}{C_{n-1}} \text{ converges on } 1.324717957$$


Fig. 3

Meru 3, 1.32471795725

(also Meru 6)

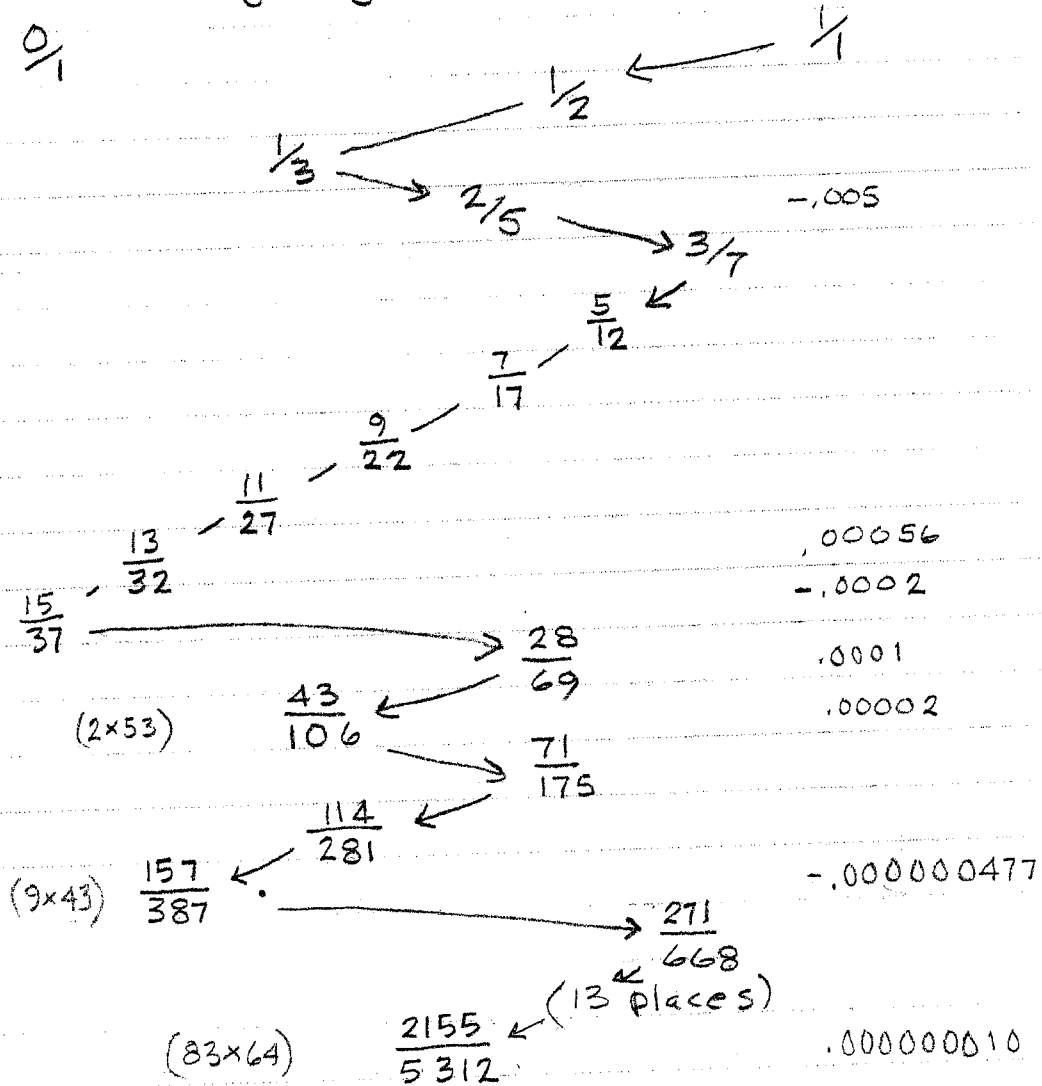
Log2 .405685231382..

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)

0/1

Zig-Zag Pattern



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

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

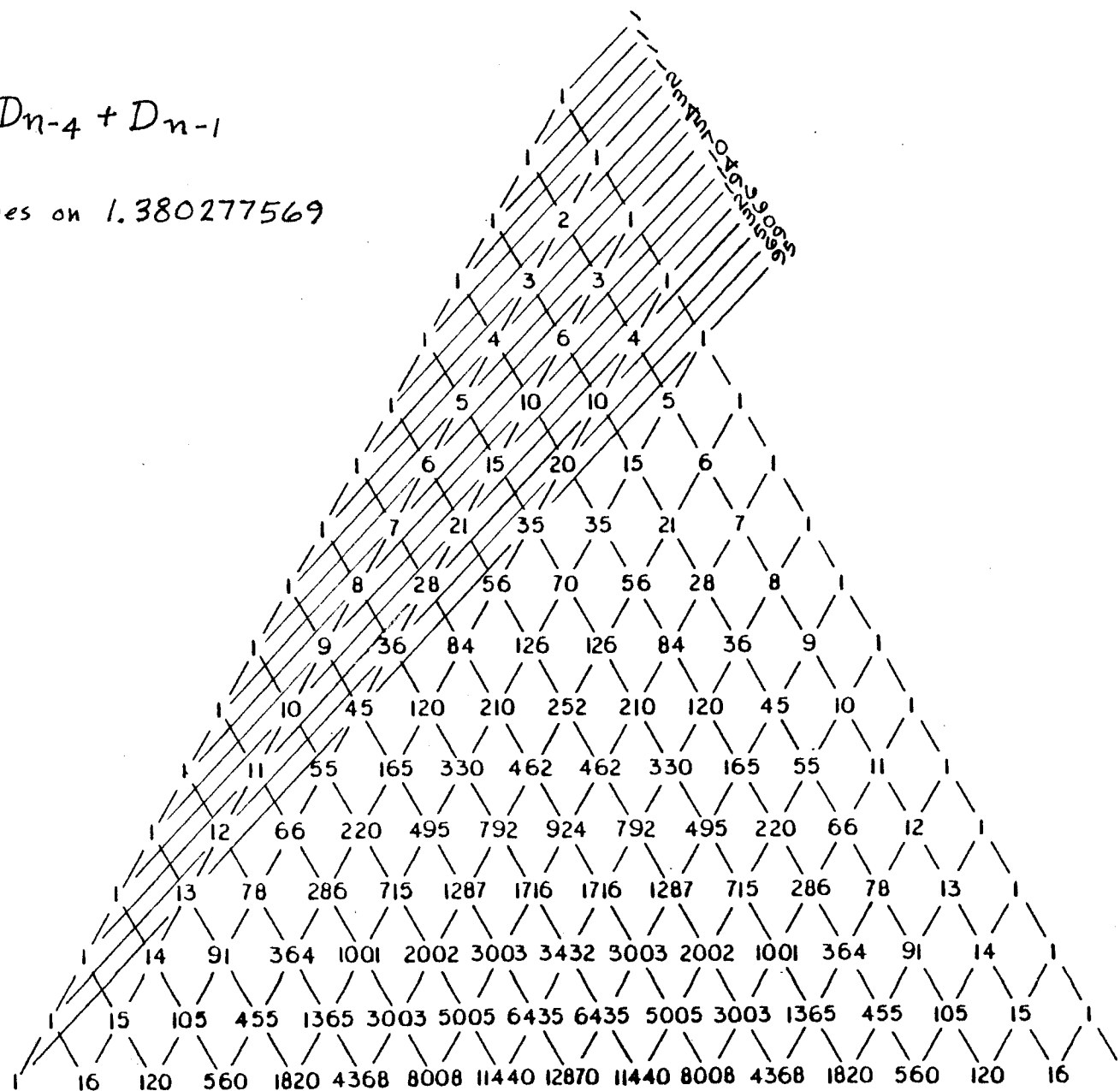


Fig. 4

(Meru 4.) 1.380277569

$\log_2 .464958417209...$

1/2

0
1

$\frac{1}{2} \leftarrow \frac{1}{1}$

$\leftarrow 2 .464$
 $\rightarrow 6 .150$
 $\leftarrow 1 .634$
 $\rightarrow 1 .576$
 $\rightarrow 1 .735$
 $\leftarrow 1 .360$
 $\rightarrow 2 .774$
 $\leftarrow 1 .290$
 $\rightarrow 3 .441$
2 .267
3 .737
1 .356
2 .806

$\frac{1}{3} \rightarrow \frac{2}{5} \rightarrow \frac{3}{7} \rightarrow \frac{4}{9} \rightarrow \frac{5}{11} \rightarrow \frac{6}{13} \rightarrow \frac{7}{15}$
 $\frac{13}{28} \rightarrow \frac{20}{43}$
 $\frac{33}{71} \rightarrow \frac{53}{114} \rightarrow \frac{73}{157}$
 $\frac{126}{271} \rightarrow \frac{199}{428} \rightarrow \frac{272}{585} \rightarrow \frac{345}{742}$

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

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

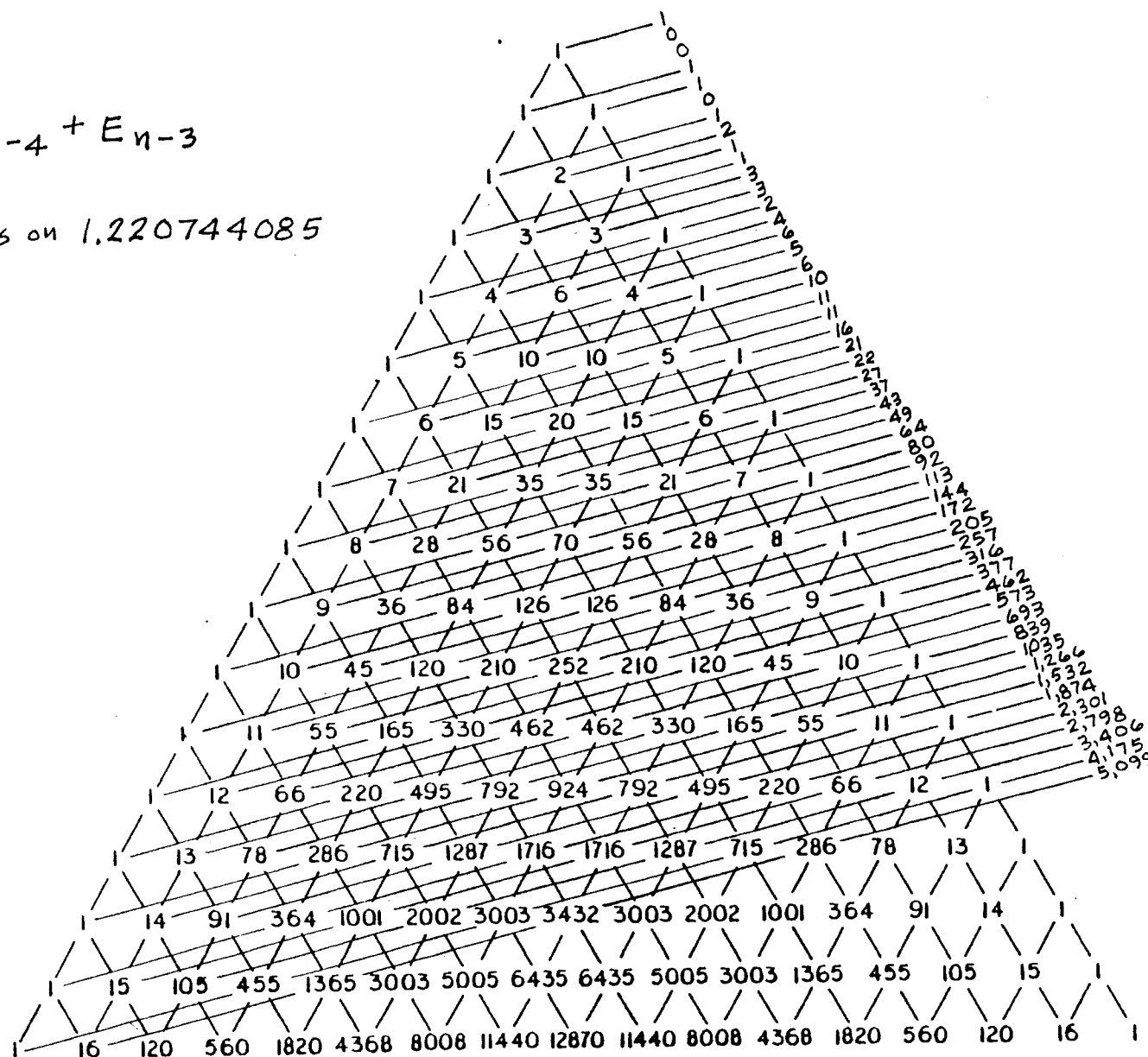
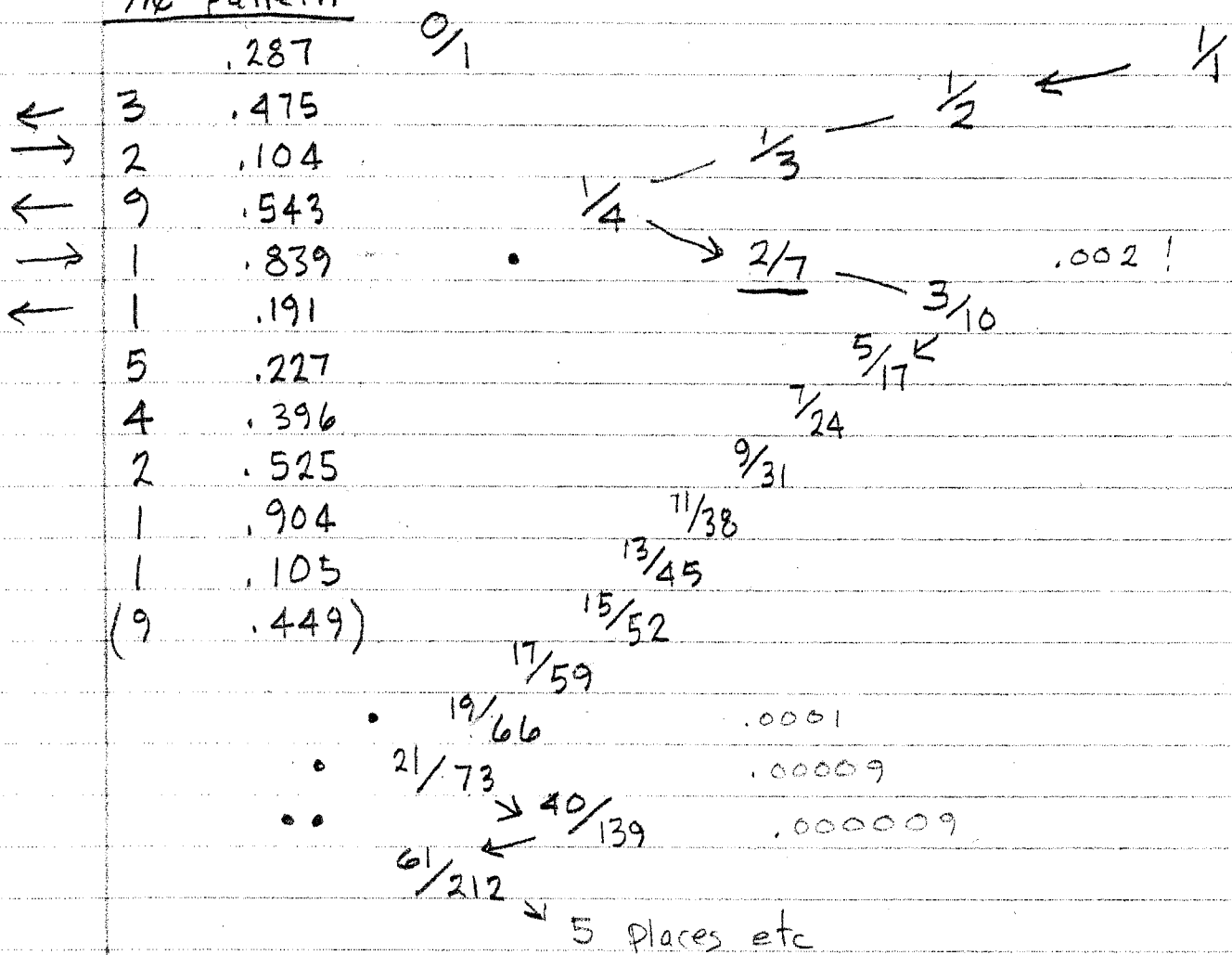


Fig. 5

Meru 5, 1.22074408461...

$$\log_2 = .287766787088...$$

1/N Pattern



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

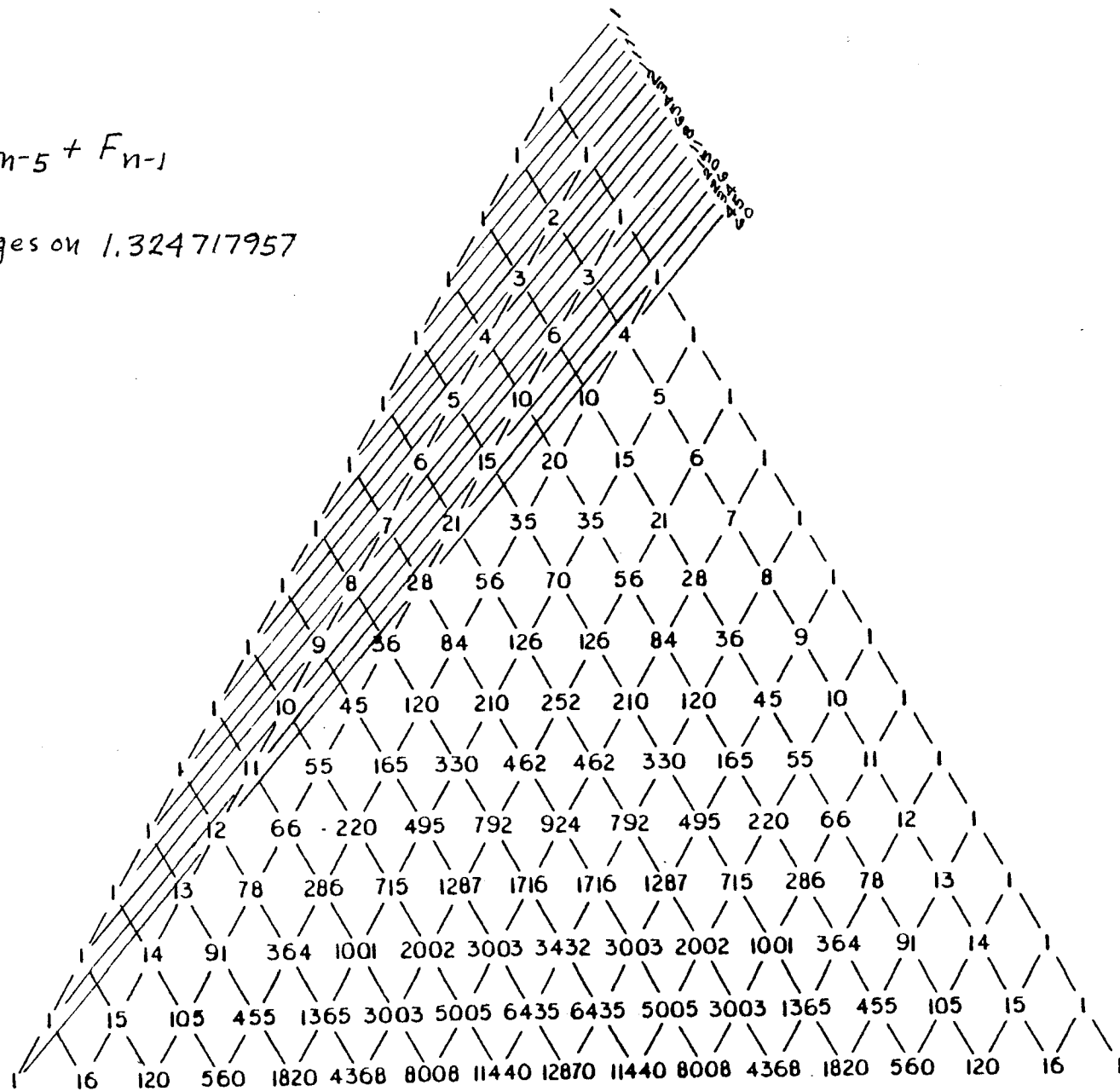
$$\frac{F_n}{F_{n-1}} \text{ converges on } 1.324717957$$


Fig. 6

Meru 3 ; 1.32471795725

(also Meru 6)

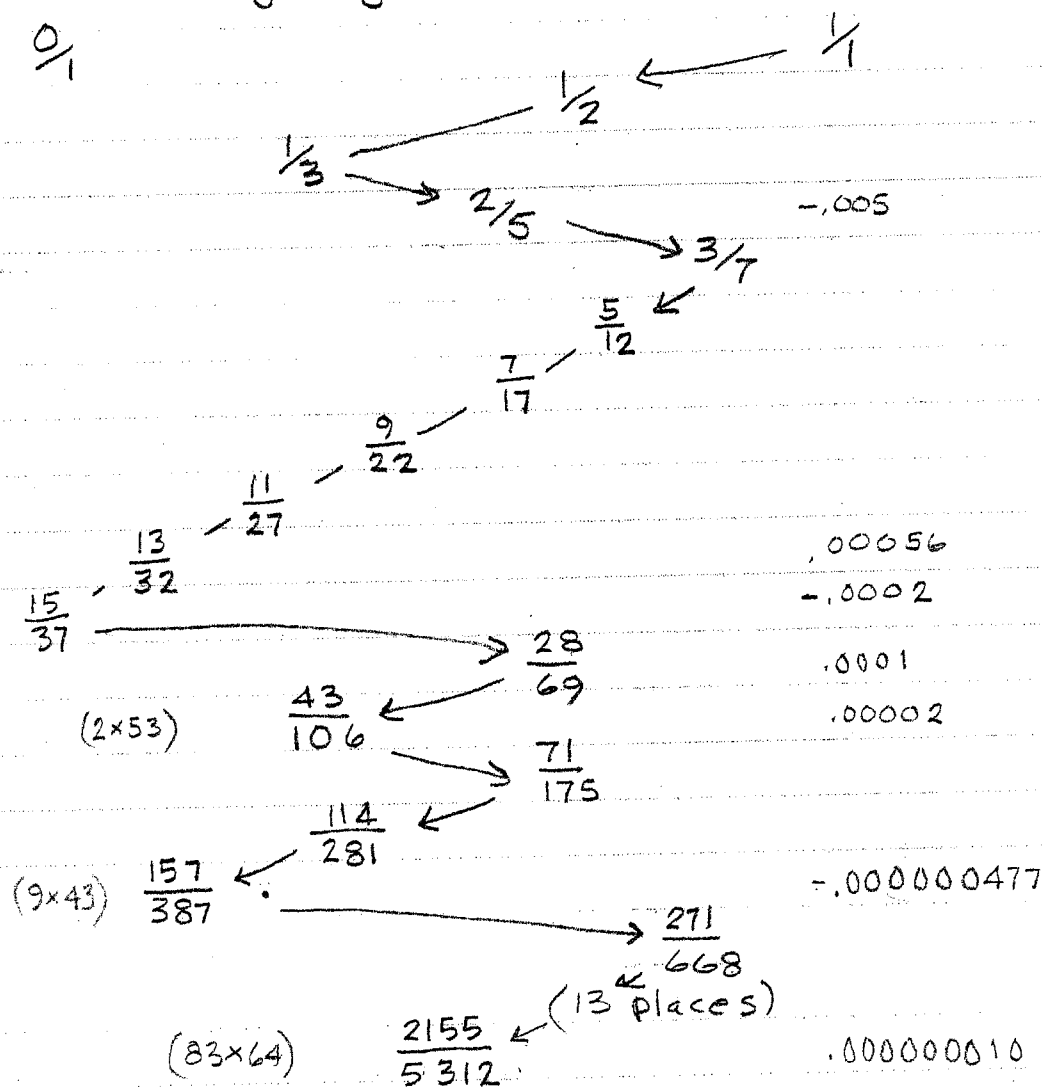
Log 2 .405685231382..

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)

0/1

Zig-Zag Pattern



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

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

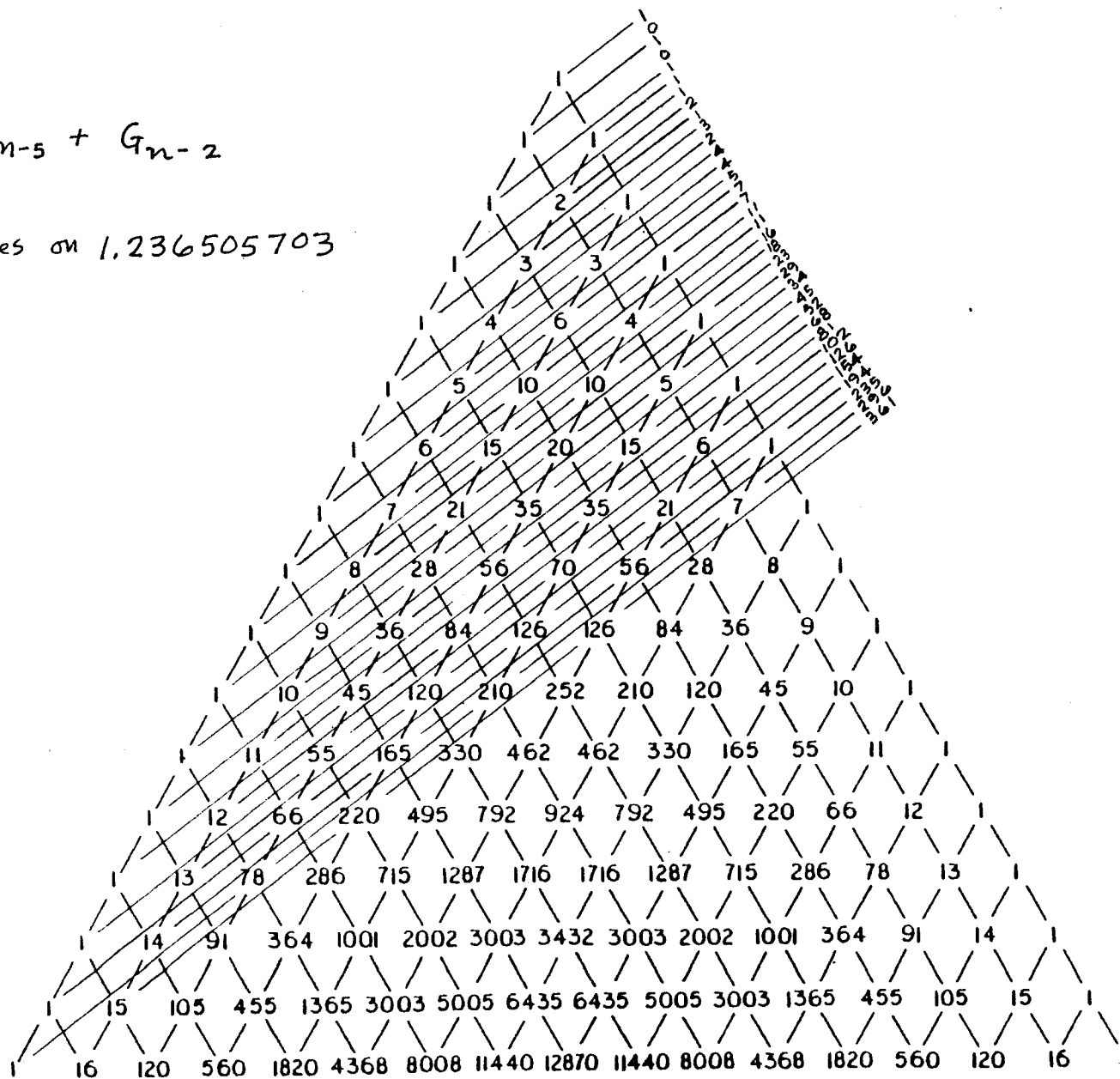


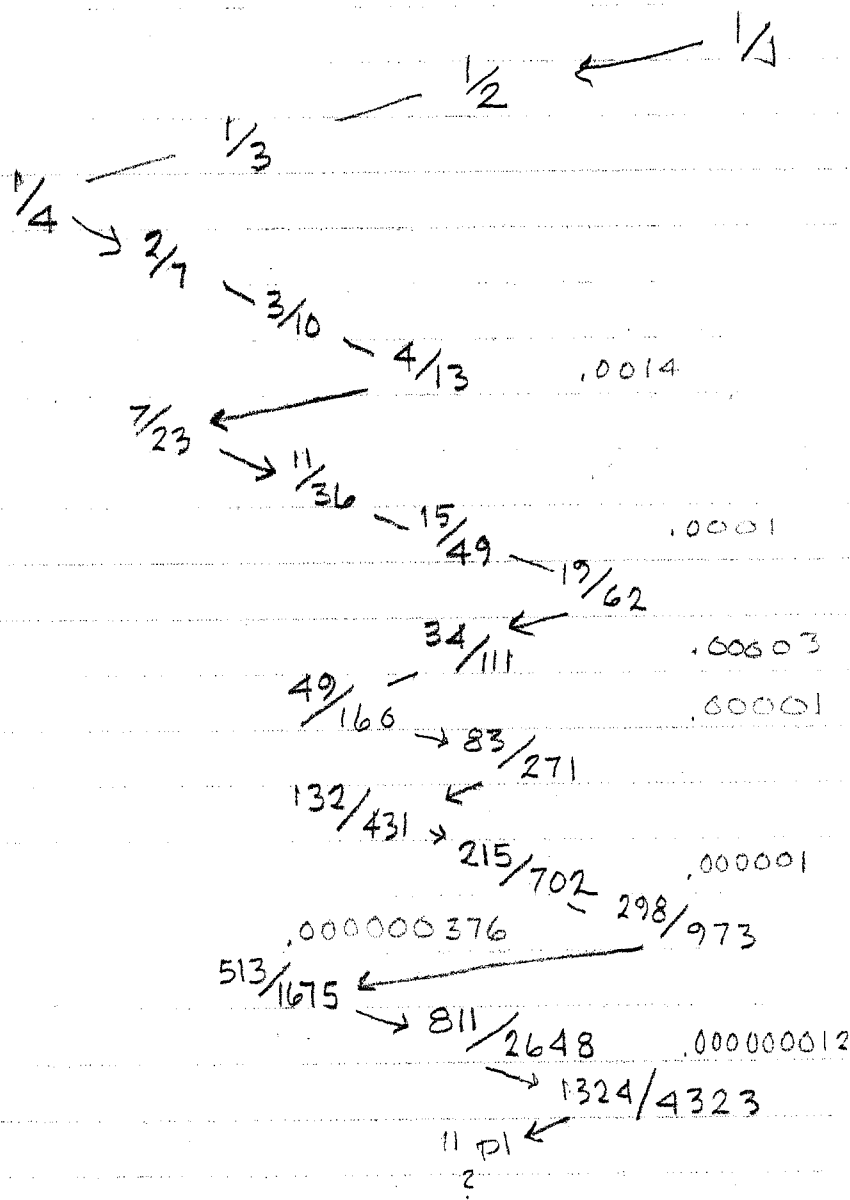
Fig. 7

Meru 7 1.236 505 703 39...

$\log_2 .306 268 894 183 \dots$

	<u>1/2</u>	
		.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

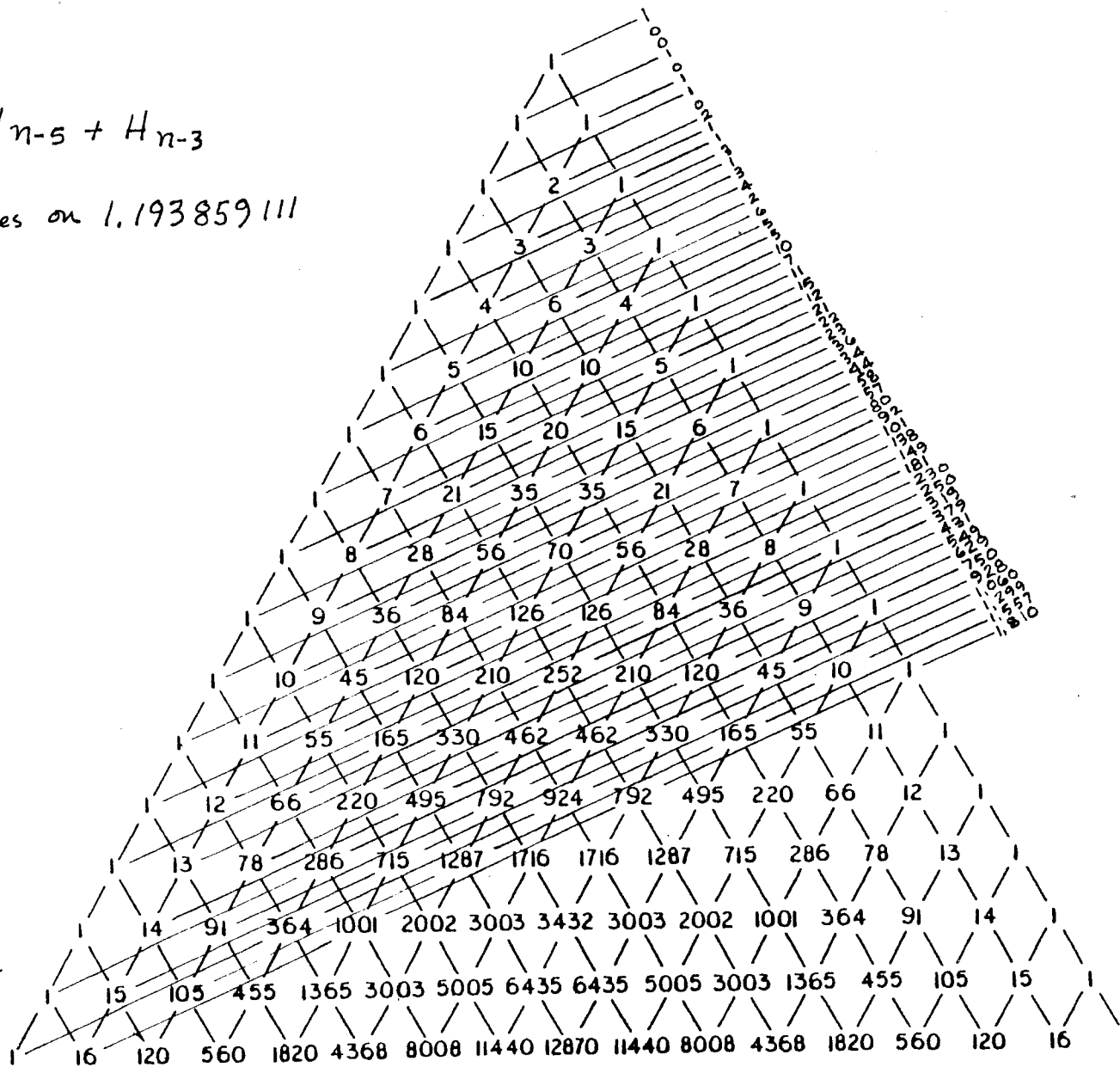


Fig. 8

Meru 8, 1.19385911132..

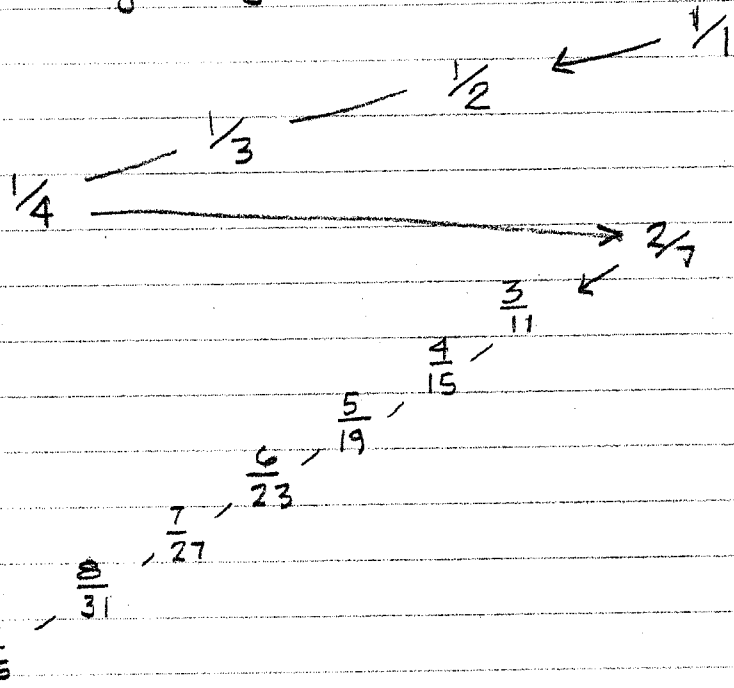
$\log_2 .255632592555..$

1/N Pattern

zig-zag

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

0/1



$\frac{12}{47} - \frac{11}{43}$
 $\frac{23}{90}$

$\frac{34}{133}$

$\frac{57}{223}$

(8 places)

$\frac{295}{1154} - \frac{329}{1287}$

73 places

$\frac{21864}{85529} - \frac{21569}{84375}$

.00018

-.000077

.0000065

-.000000010

3.7000000E-11

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

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

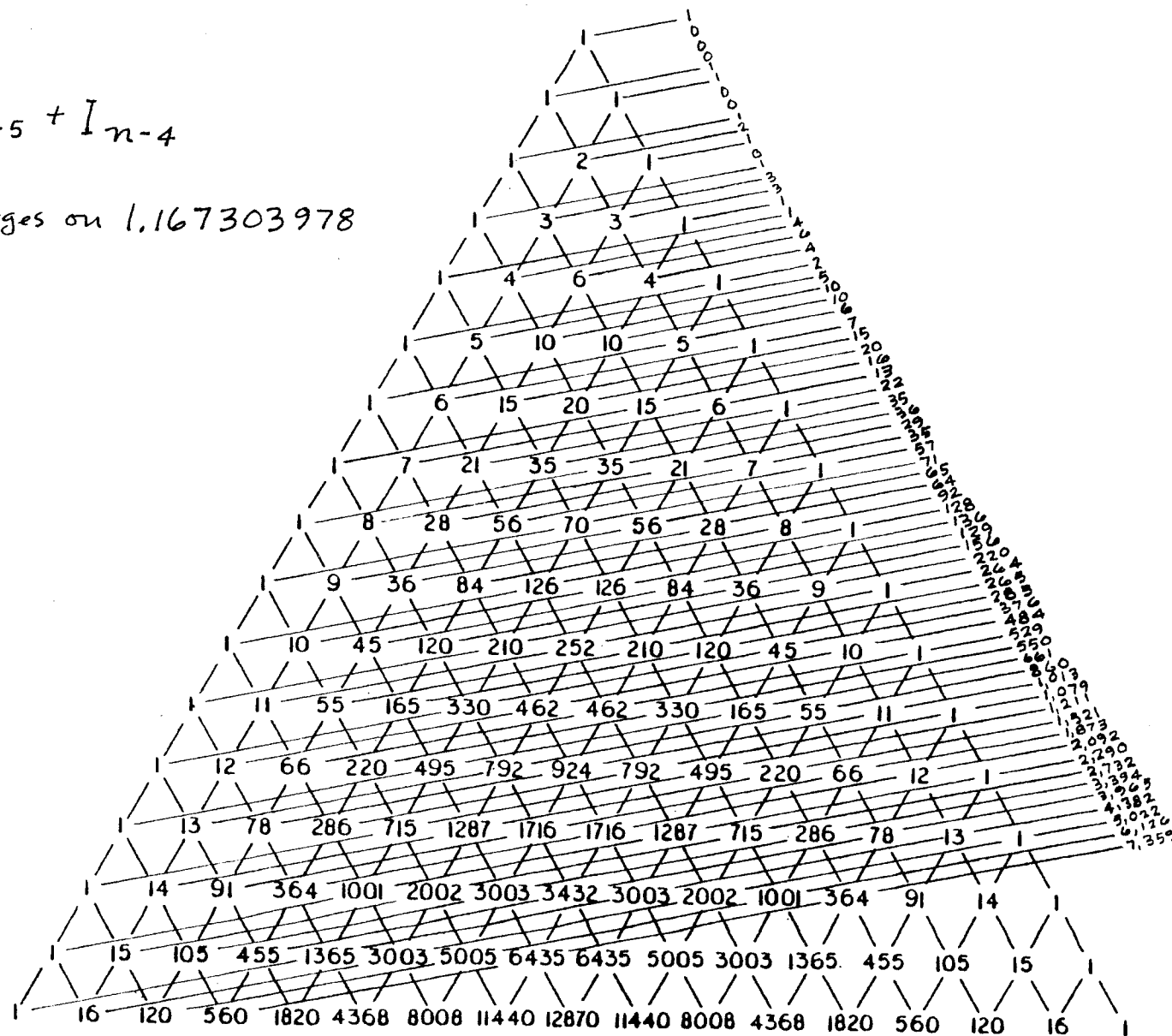


Fig. 9

Meru 9 = 1.16730397826..

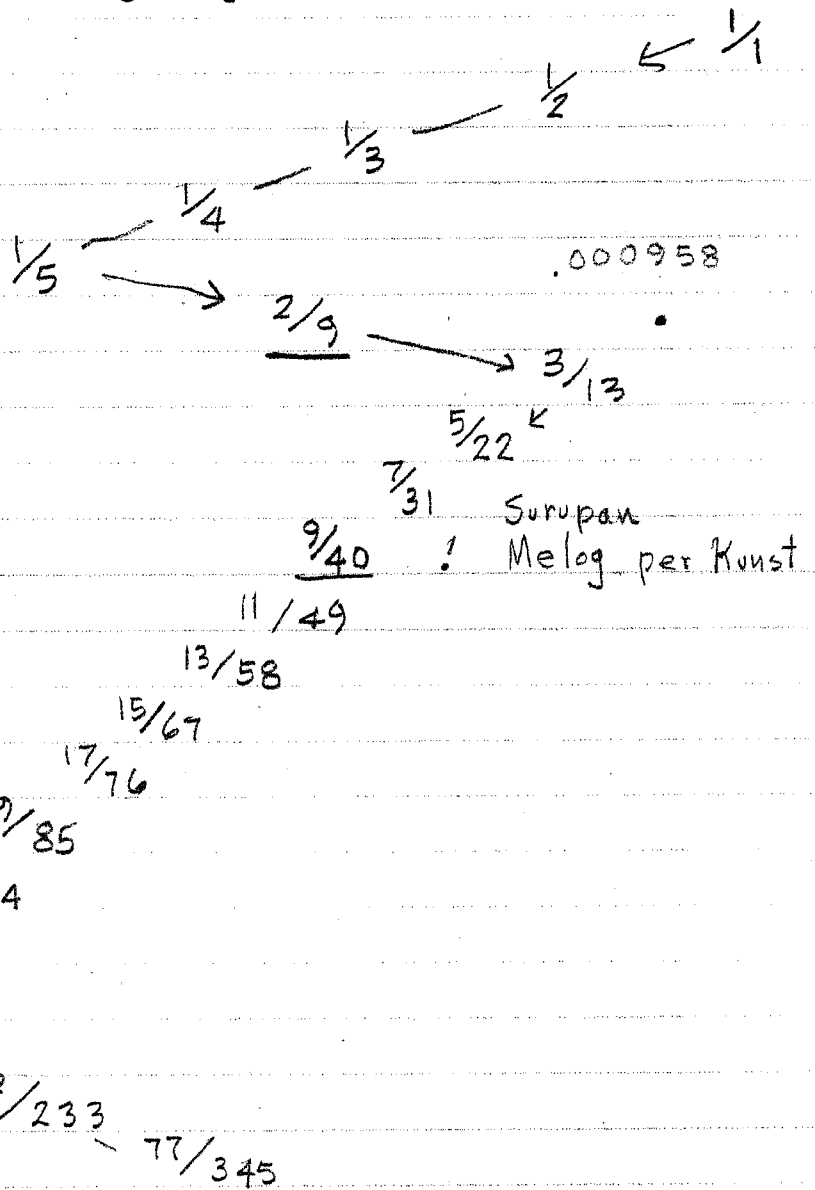
$\log_2$: .223180302967..

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

Surupan
! Melog per Kunst