

WISCoding for

LNS

$$r = \log_e b$$

By CW Mc

Date

11-28-59

Page

1 of 2

FLOW ORDER		X	TYPE	A	B	C	#	HEXADECIMAL				
##	##							X	T	A	B	C
				[]	$r = \log_e b$	[]	$\log_2$	/	0	b	r	β
				[]	[]	[]						
		25	E	$\log_2$ [b]	$25, 12$	[]	001	019	1	35f	49c	004
		13	E	$\log_2$ [r]	$1, 12$	[]	2	00d	1	35f	01c	01c
		1	E	$\log_2$ [β]	$1, 12$	[]	3	001	1	35f	01c	01d
			A	b [] + 0	[]	$\rightarrow b$	4	/	8	()	3ff	35f
		100	TN	b [] - 1 ^c	[]	[HALT]	5	100	e	\	3fd	3e8
			A	$\frac{1}{2} \times 2^8$ [] + 0	[]	$\rightarrow g$	6	/	8	020	3ff	35e
		41	E	b [exp]	$33, 8$	$\rightarrow g$	7	029	1	35f	218	35e
		49	E	b [sign exp]	$50, 1$	$\rightarrow g$ [sign of num]	8	031	1	35f	321	35e
			A	g [] + 0	[]	$\rightarrow g$	9	/	8	35e	3ff	35e
			TNA	2 [] - g	\	[]	a	/	f	021	\	01e $\rightarrow$
			A	0 [] + 0	[]	$\rightarrow g$	b	/	8	3ff	3ff	35e
				[]	[]	[]						
			S	p [] - 1	[]	$\rightarrow b-1$	c	/	a	35f	3fe	35d $\leftarrow$ 01f
			A	p [] + 1	[]	$\rightarrow$ []	d	/	8	35f	3fe	\
			D	p-1 [] : p+1	[]	$\rightarrow \varphi'$	e	/	3	35d	\	35f
			A	φ' [] + 0	[]	$\rightarrow S_n$	f	/	8	\	3ff	35b
			A	φ' [] + 0	[]	$\rightarrow T_n$	010	/	8	\	3ff	35a
			A	1 [] + 0	[]	$\rightarrow n$	1	/	8	3fe	3ff	35d
			M	φ' [] $\cdot \varphi'$	[]	$\rightarrow \varphi$	2	/	2	35f	35f	35f
				[]	[]	[]						
				[]	[]	[]						
				[]	[]	[]						
				[]	[]	[]						

WISCoding for LNSBy CW McDate 11-28-59Page 2 of 2

FLOW ORDER								HEXADECIMAL				
#	#	X	TYPE	A	B	C	#	X	T	A	B	C
			A	$S_n [] + 0 [] \rightarrow S_{n-1} []$			013	/	8	35b	3ff	35c
			M	$T_n [] \cdot n [] \rightarrow T_n' []$			4	/	2	35a	35d	35a
			A	$n [] + 2 [] \rightarrow n []$			5	/	8	35d	021	35d
			D	$\varphi^2 [] \div n [] \rightarrow []$			6	/	3	35f	\	\
			M	$T_n' [] \times \varphi^2 n [] \rightarrow T_n []$			7	/	2	35a	\	35a
			A	$S_{n-1} [] + T_n [] \rightarrow S_n []$			8	/	8	35c	\	35b
			TNA	$ S_{n-1} [] - S_n []$			9	/	f	35c	\	013
				[]	[]	[]						
			M	$S_{n-1} [] \cdot 2 [] \rightarrow S_n []$			a	/	2	35c	021	35b
			M	$g [] h_2 [] \rightarrow []$			b	/	2	35e	022	\
			A	$2S_{n-1} [] + g h_2 []$		$[(r)]$	c	/	8	35b	\	()
			TU	[]	[]	$[(p)]$	d	/	5	/	/	()
				[]	[]	[]						
			E	[]	[]	[]	e	001	1	3ff	299	35f
			TU	[]	[]	[]	f	/	5	/	/	00c
				[]	[]	[]						
Constants	{			$\frac{1}{2} \times 2^8 []$	[]	[]	020	00b	8	/	/	/
				2 []	[]	[]	1	002	8	/	/	/
				$h_2 []$	[]	[]	2	/	b	172	17f	7d2
				[]	[]	[]						
Opstos	{			$L_0 \pm b \pm \varphi' \pm \varphi \pm$	[]	[]	35f					
				g $\pm$ []	[]	[]	e					
				b-1 $\pm$ n -	[]	[]	d					
				$S_{n-1} \pm$ []	[]	[]	c					
				$S_n \pm$ []	[]	[]	b					
				$T_n -$			a					

LNS

2.01.04

$$r = \ln b =$$

$$= \ln(p \times 2^g) = \ln p + g \ln 2$$

$$b \rightarrow p \quad g$$

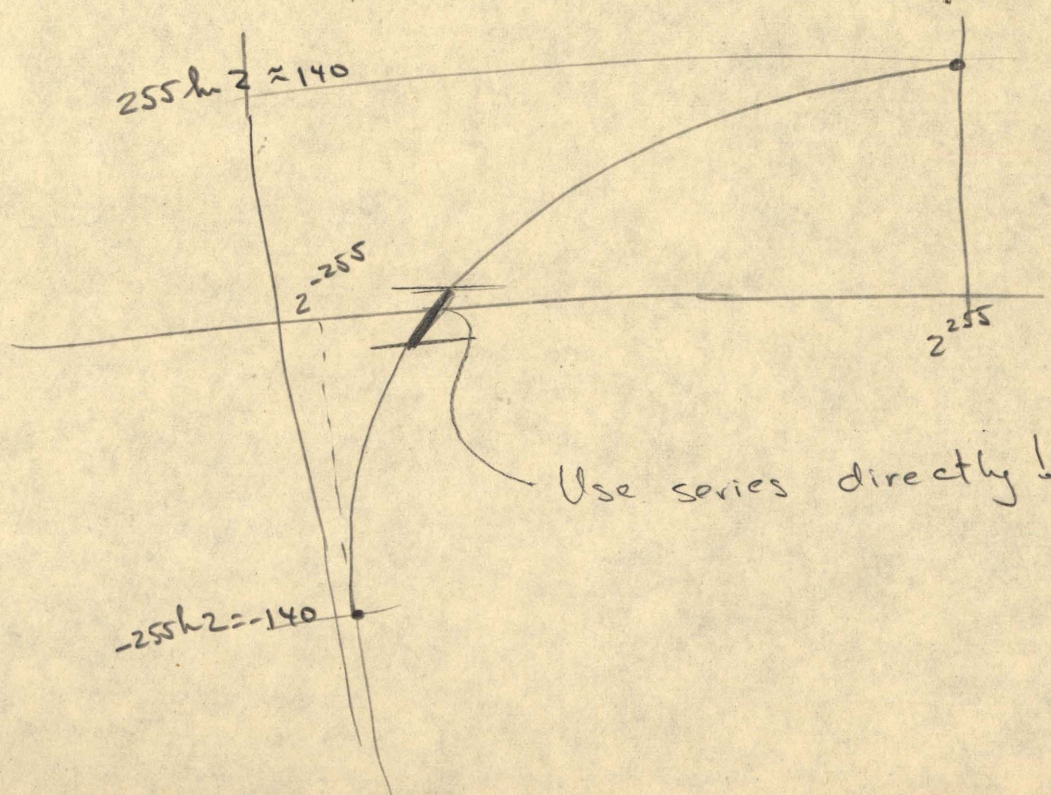
$$\frac{1}{2} \leq p \leq 1$$

$$\ln p = 2 \left\{ \sum_{n=0}^{\infty} \frac{1}{(2n+1)} \left(\frac{p-1}{p+1} \right)^{2n+1} \right\}$$

$$S_0 = T_0 = \left(\frac{p-1}{p+1} \right)$$

$$n = 1$$

$$T_{n+2} = \frac{n T_n}{n+2} \left(\frac{p-1}{p+1} \right)^2$$



2.01.04

00000010223e8,

019135f19c004,
00d135f01c01c,
001135f01c01d,
00080003ff35f,
100e8003fd3e8,
00080203ff35e,
029135f21835e,
031135f32135e,
000835e3ff35e,
000f02180001e,
00083ff3ff35e,
000a35f3fe35d,
000835f3fe800,
000335d80035f,
00088003ff35b,
00088003ff35a,
00083fe3ff35d,
000235f35f35f,
000835b3ff35c,
000235a35d35a,
000835d02135d,
000335f800800,
000235a80035a,
000835c80035b,
000f35c800013,
000235c02135b,
000235e022800,
000880035b000,
0005000000000,
00113ff29935f,
000500000000c,
0088000000000,
0028000000000,
000b17217f7d2,

LNS

Master
Tape

CHM
11-28-59