Direction of Mecca-Brian's Solution

HP-25 Program Form

DISPLAY	MEY.	x	Υ	z	т	COMMENTS	REGISTERS
INE COL	ENTRY		'			Comments	
00	Musikille	1					no lat
01 6							1
02 00	0						
	ENTER		00				A, Longe
24 C4 C		CAIRD	90				
1	4 500 4			-			R. lat
7 9	4 570 4			 			R 2 CAI
0	0						
9 3/	ENTER	111					Ralon
0 24 0	ORCL O		90	1			"3 CA
11 41	-	1		1			11
	55 500 5			1		a and b stored	RA a
13 24 0	4 RCL4			-		2,4,70	1174
14 /4 0	05 f 605	c05 a		1			1
	05 RCLS	-					6
16 /4				1			- R 5
17 6	/ X						1
18 24	04 RCL 4	/		1			Re C
19 /4	04 fsin						76
20 24	55 RCLS						1
21 /40	04 tsin	Sin 6					R, G
22 6	1 1] "/
23 24		/					
24 24	03 RCL 3	3					
25 4	/ -	4					_
	07 500	7					1
27 /4		cos 4					1
28 6		-					4
29 5		1 -	-				4
30 /5	05 9 605	1 0	1	1		1	1

sin C

sin 6

 \mathcal{B}

04F sin

1504 95in-1

HP-25 Program Form

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TEP	INSTRUCTIONS	INPUT DATA/UNITS		OUTPUT DATA/UNITS			
1	Key in program						
2	on reverse						
2	Store latitudes	and					
-	longitudes in	· f. 1					
_	RH to R4 as 5	Decitied					
3	on reverse. Run program		7	PRGM	R/s		The and
4	Examine output.	_					7710 471
	correct angle	if					
	it is in the	11					
\dashv	wrong guadrant	and the same of th					
-	to ambiguity of	5/n-1).					
\dashv	J	/					
\dashv	71 22 211		<u> </u>	<u> </u>			
	Theory			1			
	Ch North Pole		-		l		
	a/\			i			
Cair	0/6						
	Mecca						
	B c y Mecca						
	6-000 0-1						
	a = 90°-lateAIRO	-		<u> </u>			
	$a = 90 - lat_{CAIRO}$ $b = 90 - lat_{MECCA}$ $G = lon - lon$		-	╬──		\vdash	
	G= KON - KON MECCA CAI	RO	-	1			
0	= cos (cosacosb			1			
	+sina sin						
	Sinbsind						
B=	= 51n -						
	Sinc						
					ال		

Law of Law of