

SHARP PC-1404G 測量計算プログラム

平行移動付き4点交点計算

DEF A

2006/8/17

メモリー	変数	変数
A	X1	
B	Y1	
C	X2	
D	Y2	
E	X3	
F	Y3	
G	X4	
H	Y4	
I		DX M1
J		DY M2
K	X6	
L		L1
M		L2
N	Y6	
O	X7	
P	Y7	
Q	X8	
R	Y8	
S	X9	
T	Y9	
U		Z1
V		W2
W		W1
X		X
Y		Y
Z		

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10:"A":REM 4X SHIFT
20:DEGREE :WAIT 0:USING
   "####.####"
30:WAIT :PRINT "4X SHIF
   T"
40:INPUT "X1=";A
50:INPUT "Y1=";B
70:INPUT "X2=";C
80:INPUT "Y2=";D
110:DX=C-A:DY=D-B:L=SQR
   (SQU DX+SQU DY):U=
   ASN (DY/(L+ABS (L=0)
   ))
120:U=(360+U)*ABS (DX>0
   )+(180-U)*ABS (DX<0)
130:AZ=U:GOSUB 1330
140:U=AZ:Z=DMS AZ
142:IF D<>0 THEN 150
144:IF D=0 LET Z=U
150:WAIT :USING "####.##
   ##":PRINT "AZ1=";Z
152:IF D=0 THEN 160
155:WAIT :USING "#####
   ##.###":PRINT "L1=";
   L
156:INPUT "-W+=";W
157:K=A+W*COS (U+90):N=B
   +W*SIN (U+90)
158:O=C+W*COS (U+90):P=D
   +W*SIN (U+90)
202:AZ=Z2:GOSUB 1330
204:Z2=AZ:Z=DMS AZ
350:INPUT "X3=";E
360:INPUT "Y3=";F
380:INPUT "X4=";G
390:INPUT "Y4=";H
410:IF H=0 LET Z2=DEG G:
   GOTO 470
420:I=G-E:J=H-F:M=√(SQU
   I+SQU J):Z2=ASN (J/(
   M+ABS (M=0)))
430:AZ=(360+Z2)*ABS (I>=
   0)+(180-Z2)*ABS (I<0
   )
440:GOSUB 1330
450:Z2=AZ:Z=DMS Z2
460:IF H=0 THEN 480
470:IF H=0 LET Z=DMS Z2
480:WAIT :USING "####.##
   ##":PRINT "AZ2=";Z
490:IF H=0 THEN 510
500:WAIT :USING "#####
   ##.###":PRINT "L2=";
   M
510:INPUT "-W+=";V
530:Q=E+V*COS (Z2+90):R=
   F+V*SIN (Z2+90)
550:S=G+V*COS (Z2+90):T=
   H+V*SIN (Z2+90)

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570:IF D=0 THEN 575
575:IF H=0 THEN 770
580:IF D=0 THEN 650
590:IF H=0 THEN 710
600:I=(P-N)/(O-K)
610:J=(T-R)/(S-Q)
620:X=(J*Q-I*K+N-R)/(J-I
   )
630:Y=I*(X-K)+N
640:GOTO 840
650:I=TAN U
660:J=(T-R)/(S-Q)
670:DX=(I*(K-Q)-(N-R))/(
   I-J)
680:X=Q+DX
690:Y=R+DX*J
700:GOTO 840
710:I=TAN Z2
720:J=(P-N)/(O-K)
730:DX=(I*(Q-K)-(R-N))/(
   I-J)
740:X=K+DX
750:Y=N+DX*J
760:GOTO 840
770:O=K+1000*COS U:P=N+1
   000*SIN U
780:S=Q+1000*COS Z2:T=R+
   1000*SIN Z2
790:I=(P-N)/(O-K)
800:J=(T-R)/(S-Q)
810:X=(J*Q-I*K+N-R)/(J-I
   )
820:Y=I*(X-K)+N
830:GOTO 840
840:BEEP 1
890:WAIT :PRINT "X=";X
900:PRINT "Y=";Y
910:GOTO 30
1330:IF AZ>=360 LET AZ=
   AZ-360:GOTO 1330
1340:IF AZ<0 LET AZ=AZ+
   360:GOTO 1340
1350:RETURN
1360:REM
1380:RETURN
1390:WAIT 0:PRINT "
   "
1400:RETURN
1410:GOSUB 390
1420:RETURN

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