

SHARP PC-1404G 測量計算プログラム

2円交点計算

DEF A

2内角交点計算

DEF S

2006/8/17

2円交点計算

入力

X1 器械点
Y1 器械点
X2 後視点
Y2 後視点
L1 距離
L2 距離

出力

X3 交点
Y3 交点

2内角交点計算

入力

X1 器械点
Y1 器械点
X2 後視点
Y2 後視点
A 内角
B 内角

出力

X3 交点
Y3 交点

```

10:"A":REM 2LENGTH
20:DEGREE :WAIT
30:PRINT "2LEN"
40:GOSUB 1040
160:INPUT "L1=";L1
170:INPUT "L2=";L2
200:Z3=ACS ((SQU L1+SQU
L0-SQU L2)/(2*L1*L0)
)+AZ
220:IF Z3>=360 LET Z3=Z3
-360:GOTO 220
225:IF Z3<0 LET Z3=Z3+36
0:GOTO 225
230:DX=L1*COS Z3:DY=L1*
SIN Z3
240:X3=X1+DX:Y3=Y1+DY
280:USING "#####.###
":WAIT
290:PRINT "X =" ;MDF X3
300:PRINT "Y =" ;MDF Y3
310:GOTO 160
400:REM
410:IF AZ>=360 LET AZ=AZ
-360:GOTO 410
420:IF AZ<0 LET AZ=AZ+36
0:GOTO 420
430:RETURN
510:"S":REM 2ANGLE
520:DEGREE :WAIT
530:PRINT "2ANGLE"
540:GOSUB 1040
660:INPUT " A=";AA:ZA=
DEG AA:Z=AA
670:INPUT " B=";BB:ZB=
DEG BB:Z=BB
690:CA=-ZB+180-ZA:LC=L0*
SIN (ZB)/SIN (CA)
700:D3=X3-X1:E3=Y3-Y1:L3
=√(SQU D3+SQU E3):Z3
=ASN (E3/(L3+ABS (L3
=0)))
710:AZ=Z0+ZA:L=LC
720:IF AZ>=360 LET AZ=AZ
-360:GOTO 720
725:IF AZ<0 LET AZ=AZ+36
0:GOTO 725
730:DX=L*COS AZ:DY=L*SIN
AZ
740:X3=X1+DX:Y3=Y1+DY
745:REM
750:USING "#####.###
":WAIT
790:PRINT "X =" ;MDF X3
800:PRINT "Y =" ;MDF Y3
810:GOTO 660
820:END
    
```

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1040:INPUT "X1=";X1
1050:INPUT "Y1=";Y1
1070:INPUT "X2=";X2
1080:INPUT "Y2=";Y2
1090:IF Y2=0 THEN 110
1110:X0=X1:Y0=Y1
1120:IF Y2=0 LET AZ=DEG
X2:GOTO 150
1130:DX=X2-X1:DY=Y2-Y1:
L0=√(SQU DX+SQU DY
):AZ=ASN (DY/(L0+
ABS (L0=0)))
1140:AZ=(360+AZ)*ABS (D
X)>0)+(180-AZ)*ABS
(DX<0)
1150:GOSUB 400
1160:Z0=AZ:Z=DMS AZ
1170:USING "###.###":
PRINT "AZ=";Z
1180:IF Y2=0 THEN 200
1190:USING "#####.#
##":PRINT "L =" ;
MDF L0
1200:RETURN
    
```