

***** Program for CASIO FX-880P *****

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10 CLEAR:CLS:MODE4:SETN:a$="[anykey]":i$=CHR$(228):k$=a$+"Back ":t$=a$+"None
":
p$=">Peg #":o$=CHR$(240):c$="Position of "
15 v$=CHR$(230):m$=CHR$(135):e$=CHR$(132):d$=CHR$(238):q$=" m"+CHR$(146):
b$=">Line ":h$=">Sta #":GOTO900
20 CLS:BEEP1:RETURN
25 n$=INPUT$(1):CLS:BEEP:RETURN
30 CLS:LOCATE0,1:PRINTH$;:RETURN
35 BEEP:LOCATE5,0:PRINT" ";:RETURN
(ช่องว่าง 26 เคาะ)
40 BEEP:LOCATE0,0:PRINT" ";:RETURN
(ช่องว่าง 30 เคาะ)
43 R$=">1:Continue "+a$+"End ":GOTO45
44 R$=">1:N&E "+a$+"Azimuth "
45 LOCATE0,0:PRINTR$;:K$=INPUT$(1):GOSUB40:RETURN
48 R$="#Station"
50 LOCATE0,0:PRINTR$;:INPUT" = ",a:GOSUB40:RETURN
58 R$=">Sta BW. "
60 LOCATE0,0:PRINTR$;:INPUT" (N) = ",x:GOSUB40
70 LOCATE0,0:PRINTR$;:INPUT" (E) = ",y:GOSUB40:RETURN
79 GOSUB20:R$=c$+"X"
80 X$="N":IF x<0 THEN X$="S"
90 Y$="E":IF y<0 THEN Y$="W"
100 LOCATE0,1:PRINTX$;ABS(x);:LOCATE16,1:PRINTY$;ABS(y);:GOTO120
105 LOCATE0,1:PRINT"Lat: ";X;:LOCATE16,1:PRINT"Dep: ";Y;:GOTO120
110 LOCATE0,1:PRINT"Az: ";DMS$(a);:LOCATE18,1:PRINT"Dis: ";d;
120 LOCATE0,0:PRINTR$;:GOSUB25:RETURN
130 R$=RIGHT$(STR$(G),LEN(STR$(G))-1):RETURN
140 z=FRACa*100:a=DEG(INTa,INTz,FRACz*100):RETURN
150 IF a>540 THEN a=a-540:RETURN
160 IF a>180 THEN a=a-180:RETURN
170 a=a+180:RETURN
180 X=ROUND(REC(d*M,a),w):Y=ROUND(Y,w):RETURN
190 X=ROUND(POL(x,y)/M,w):IF Y<0 THEN Y=Y+360
200 RETURN
210 R$="1:UTM "+a$+"Normal ":GOSUB45
220 IF K$="1"GOTO630
225 IF Y=1 THEN M=1:GOTO240
230 R$="1:Chain "+a$+"Meter ":GOSUB45:M=1:IF K$="1" THEN u=4:U=5:GOTO250
240 u=3:U=4
250 w=-U:m=ROUND(M^2,-6):t=-6:RETURN
260 R$="H.avg (h)":GOSUB50:h=a:IF a<-100 OR a>1E4 GOTO255
261 R$="Scale factor (k)":GOSUB50:IF a<.9 OR a>1.1 GOTO261
265 r=ROUND(r/(r+h),-6):M=ROUND(r*a,-6):GOTO240
270 LOCATE0,1:PRINT"Hz ";I$;">";DMS$(a);:LOCATE19,1:PRINT"Dis ";d;:GOTO120
280 IF r<0 THEN r=r+360
285 RETURN
290 IF r>180 THEN r=360-r
295 RETURN
300 DIM A(Q),B(Q),D(Q),N(Q),E(Q),X(Q),Y(Q):RETURN
305 N(N+1)=N(1):E(N+1)=E(1):RETURN
310 R$=h$+"1":GOSUB60:A=x:B=y:RETURN
320 R$=h$+"2":GOSUB60:C=x:D=y
330 x=C-A:y=D-B:GOSUB190:L=X:G=Y:a=Y:GOSUB150:H=a:RETURN
350 a=SQR(b^2+c^2-2*b*c*COSX):RETURN
355 X=ACS((b^2+c^2-a^2)/(2*b*c)):RETURN
360 Q=a+1:N=a:GOSUB300
370 FOR I=1 TO N:G=I:GOSUB130:R$=">Sta #"+R$:GOSUB60:N(I)=x:E(I)=y:NEXT I:RETURN
380 s=(a+b+c)/2:B=s*(s-a)*(s-b)*(s-c):A=ROUND(SQRB,t):RETURN
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390 LOCATE0,0:PRINTR$;:INPUT" (a) = ",a:GOSUB40:IF a<=0 GOTO390
395 a=a*M:RETURN
400 LOCATE0,0:PRINTR$;:INPUT" (b) = ",b:GOSUB40:IF b<=0 GOTO400
405 b=b*M:RETURN
410 LOCATE0,0:PRINTR$;:INPUT" (c) = ",c:GOSUB40:IF c<=0 GOTO410
415 c=c*M:RETURN
420 LOCATE0,0:PRINTR$;:INPUT" (h) = ",h:GOSUB40:IF h<=0 GOTO420
425 h=h*M:RETURN
430 SETF5:LOCATE0,0:PRINT"Area";R$;" =";ABS(A);:GOSUB25:RETURN
450 R$="(Y)Reduce-N&E "+a$+"None ":GOSUB45:IF K$<>"Y" THEN RETURN
460 R$="Reduct of":GOSUB60:Cn=x:Ce=y
470 FOR I=1 TO N:N(I)=N(I)-Cn:E(I)=E(I)-Ce:NEXT I:RETURN
480 LOCATE0,0:PRINTR$;a;:GOSUB25:GOSUB40:RETURN
500 W=0: R$="Fix area":GOSUB50:IF a<=0 GOTO500
520 IF U=5 THEN a=INTa+FRACa*2.5
530 W=a/m:RETURN
580 x=A-C:y=B-D:GOSUB190:RETURN
590 IF a=90 OR a=270 THEN a=0
595 RETURN
600 Q=ABS((C*P+O*I+H*F+E*D-D*O-P*H-I*E-F*C)/(m*2)):T=T+Q:RETURN
630 R$="UTM 0:User "+a$+"Standard ":GOSUB45:IF K$="0" GOTO650
640 r=6358211.105:GOTO260
650 R$="On Latitude":GOSUB50:IF a<0 OR a>80 GOTO650
660 b=6377276.345:e=6.637846E-3
670 r=b*SQR(1-e)/(1-e*SINA^2):GOTO260
700 IF S=1 THEN R$="PC sta"
710 IF S=2 THEN R$="PI sta"
720 IF S=3 THEN R$="PT sta"
730 GOSUB30:GOSUB50:I=a
740 IF S=2 AND I-T<0 GOTO730
750 IF S=3 AND I-l<0 GOTO730
760 IF I<0 GOTO730
770 RETURN
900 GOSUB20:PRINT" 1:Position 2:Direct 3:Areas 4:Problem 5:Curve 6:Quit ";:
K$=INPUT$(1):K=VAL(K$):BEEP
910 ON K GOTO 1000,2800,3200,5000,5300,999
920 GOTO900
950 CLS:R$="By Phrompatt Junkrajang.(1998)":FOR I=1 TO 30
      (ในเครื่องหมายคำพูด ความยาว 30 ตัวอักษร ครับ)
955 LOCATE0+I,0:PRINTMID$(R$,I,1);:NEXT I
960 R$="Good Bye !":FOR I=1 TO 9:LOCATE11+I,1:PRINTm$;
970 LOCATE11+I,1:PRINTMID$(R$,I,1);:NEXT I
980 FOR I=1 TO 300:NEXT I
      ** Line 950-980 จะป้อนหรือไม่ก็ได้ครับถ้าป้อนก็ต้องแก้ Line 910 ที่ 999 เป็น 950
      ** เป็นส่วนแสดงเจ้าของเครื่อง/โปรแกรมครับ
999 BEEP1:CLEAR:CLS:SETN:GOTO#0
1000 CLS
1010 R$="1:Traverse 2:Offset 3:Online4:Reference 5:X-Section 6:Back
":GOSUB45:K=VAL(K$)
1015 ON K GOTO 1050,1900,1900,1900,2100,900
1020 GOTO1010
1050 H$="[Traverse]":GOSUB30
1060 R$="1:Close 2:Open "+k$:GOSUB45:KS=VAL(K$):ON KS GOTO1100,1100
1070 GOTO1000
1100 H$="[Close Traverse]":IF KS=2 THEN H$="[Open Traverse]"
1105 GOSUB30:GOSUB210
1110 GOSUB48:IF KS=1 AND a>2 THEN LS=2:GOTO1130
1120 IF KS=2 AND a>0 GOTO1130
1125 GOTO1110
1130 IF a>99 GOTO1110
1140 Q=a+1:N=a:GOSUB300:SETFu:G=N:GOSUB130:i$=R$:IF KS=1 GOTO1170

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1150 K$="2":GOSUB44:LS=VAL(K$):IF LS<>1 THEN LS=2:GOTO1170
1160 GOSUB58:P=x:O=y
1170 GOSUB310:N(0)=x:E(0)=y
1180 IF KS=2 AND LS=1 GOTO1220
1190 j$="BW.":IF KS=1 THEN j$="2"
1200 R$=">Az 1"+v$+j$:GOSUB50:GOSUB140:A(0)=a
1210 IF KS=1 GOTO1270
1220 R$=h$+i$:GOSUB60:C=x:F=y
1225 IF LS=1 GOTO1240
1230 R$=">Az "+i$+v$+"FW.":GOSUB50:GOSUB140:B=a:GOTO1280
1240 R$=">Sta FW.":GOSUB60:L=x:K=y
1250 x=P-N(0):y=O-E(0):GOSUB190:A(0)=Y
1260 x=L-C:y=K-F:GOSUB190:B=Y:j=X:GOTO1280
1270 C=N(0):F=E(0):N(N)=C:E(N)=F
1280 X1=C-N(0):Y1=F-E(0):TM=0:TD=0:TA=0
1290 FOR I=1 TO N:G=I:GOSUB130:i$=R$:G=I+1:GOSUB130:j$=R$
1300 p$=">Ang #"
1310 R$=p$+j$:IF KS=2 THEN R$=p$+i$:GOTO1320
1315 IF I=N THEN R$=p$+"1"
1320 GOSUB50:GOSUB140:A(I)=a:TA=TA+a
1330 IF KS=2 AND I=N GOTO1360
1340 p$=">Dis ":R$=p$+i$+v$+j$:IF KS=1 AND I=N THEN R$=p$+i$+v$+"1"
1350 GOSUB50:TD=TD+a:D(I)=a
1360 NEXT I
1370 IF KS=1 GOTO1400
1380 IF B<A(0) THEN B=B+360
1390 S=B-A(0)+(N-1)*180:a=A(0):GOSUB150:A(0)=a:GOTO1410
1400 S=(N-2)*180
1410 R=S-TA:Z=R/N:B(0)=A(0):GOSUB20
1420 G=M:GOSUB130:IF M=1 THEN R$="1.00000"
1430 LOCATE0,1:PRINTe$;"Dis";TD;:LOCATE19,1:PRINT"Er";DMS$(R);
1440 LOCATE0,0:PRINTe$'"Ang";DMS$(TA);:LOCATE19,0:PRINT"Coff ";R$;:GOSUB25:GOSUB30
1450 IF R=0 GOTO1560
1460 R$="Adj by 0:User "+a$+"Auto ":GOSUB45
1470 FOR I=1 TO N:IF K$<>"0"GOTO1550
1490 G=I:GOSUB130:i$=R$:G=I+1:GOSUB130:j$=R$:p$="Hz>"
1510 R$=p$+j$:IF KS=2 THEN R$=p$+i$:GOTO1530
1520 IF I=N THEN R$=p$+"1"
1530 LOCATE0,0:PRINT R$;DMS$(A(I));:LOCATE20,0:PRINT"Adj(";CHR$(34);:INPUT") ",a:
GOTO40
1540 Z=DEG(0,0,a)
1550 A(I)=A(I)+Z:NEXT I:H=0:V=0:GOSUB20
1560 FOR I=1 TO N:a=A(I-1)+A(I):GOSUB150:A(I)=a
1570 G=I:GOSUB130:i$=R$:G=I+1:GOSUB130:j$=R$
1580 R$=b$+i$+v$+j$:IF KS=1 AND I=N THEN R$=b$+i$+v$+"1"
1590 IF KS=2 AND I=N THEN R$=b$+i$+v$+"FW."
1595 G=I-1:IF KS=2 THEN G=I
1600 a=A(G):d=D(I)*M:IF KS=2 AND I=N GOTO1620
1610 GOSUB110:d=D(I):GOSUB180:GOSUB105:N(I)=X:E(I)=Y:H=H+Y:V=V+X:GOTO1630
1620 GOSUB30:LOCATE0,0:PRINTR$;" Az: ";DMS$(a);:GOSUB25
1630 NEXT I
1632 IF KS=1 GOTO1645
1634 LOCATE3,1:PRINTe$;"comp ";V;:LOCATE0,0:PRINT"Lat: ";e$;"fix ";X1;
1635 LOCATE19,0:PRINT"Er>";X1-V;:GOSUB25
1638 LOCATE3,1:PRINTe$;"comp ";H;:LOCATE0,0:PRINT"Dep: ";e$;"fix ";Y1;
1640 LOCATE19,0:PRINT"Er>";Y1-H;:GOSUB25:GOSUB30:GOTO1650
1645 GOSUB30:LOCATE0,0:PRINTe$;"Lat ";V;:LOCATE16,0:PRINTe$;"Dep ";H;:GOSUB25
1650 IF H=Y1 AND V=X1 THEN AC=1E8:X=0:GOTO1665
1660 x=X1-V:y=Y1-H:GOSUB190:V=x:H=y:AC=INT(INT(TD/X)/100)*100
1665 G=AC:GOSUB130
1670 GOSUB30:LOCATE0,0:PRINT"Acc 1: ";R$;:LOCATE18,0:PRINT"Ec";X;:GOSUB25
1680 IF AC=1E8 GOTO1780
1690 IF KS=2 THEN N=N-1

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1700 v=0:h=0:FOR I=1 TO N:IF I=N THEN X=V-v:Y=H-h:GOTO1720
1710 X=ROUND((D(I)*V/TD),w):Y=ROUND((D(I)*H/TD),w):v=v+X:h=h+Y
1720 G=I+1:IF KS=2 THEN G=I
1730 IF KS=1 AND I=N THEN G=1
1740 GOSUB130:D$="#"+R$m$d$+"E":L$="#"+R$m$d$+"N:"
1750 LOCATE0,1:PRINTD$;E(I);:SETN:LOCATE20,1:PRINT"Cr:";Y*10^u;:SETFu
1760 LOCATE0,0:PRINTL$;N(I);:SETN:LOCATE20,0:PRINT"Cr:";X*10^u;:GOSUB25:SETFu
1770 N(I)=N(I)+X:E(I)=E(I)+Y:NEXT I
1780 FOR I=1 TO N:N(I)=N(I)+N(I-1):E(I)=E(I)+E(I-1)
1800 G=I+1:IF KS=1 AND I=N THEN G=1
1810 GOSUB130:R$c$+R$:x=N(I):y=E(I):GOSUB80
1820 NEXT I:GOTO10
1900 H$="[Offset]":IF K=3 THEN H$="[Online]"
1903 IF K=4 THEN H$="[Reference]"
1905 GOSUB30:GOSUB210:GOSUB44:P=0:IF K$="1" THEN P=1
1910 R$="Sta A":IF K=4 THEN R$=">ins"
1915 SETFu:GOSUB60:N=x:E=y:IF P=1 GOTO1930
1920 R$=">Az A"+v$+"B":IF K=4 THEN R$=">Az BW"+v$+"ins"
1925 GOSUB50:GOSUB140:Z=a:IF K=4 THEN GOSUB160:Z=a
1926 GOTO1940
1930 IF K=4 THEN GOSUB58:GOTO1937
1935 R$="Sta B":GOSUB60
1937 x=x-N:y=y-E:GOSUB190:Z-Y
1940 IF K=3 OR K=4 GOTO1950
1945 R$="Offset> 1:Left "+a$+"Right ":GOSUB45:O=2:IF K$="1" THEN O=1
1950 L$="Dis ":R$L$+"A"+v$+"Q":IF K=3 THEN R$L$+"A"+v$+"P"
1952 IF K=4 THEN R$="Ang
BW<ins>P":GOSUB50:GOSUB140:R=a:R=L$+"ins"+v$+"P":GOSUB50:d=a:GOTO1965
1953 GOSUB50:H=a:IF K=3 THEN d=H:a=Z:GOTO1995
1955 R=L$+"Q"+v$+"P":GOSUB50:V=a
1960 d=H:a=Z:GOSUB20:GOSUB180:x=N+X:y=E+Y:R$c$+"Q":GOSUB80
1961 R=ATN(V/H):a=Z-R:IF O=2 GOTO1965
1962 GOTO1970
1965 a=Z+R
1970 IF a<0 THEN a=a+360:GOTO1990
1980 IF a>360 THEN a=a-360
1985 IF K=4 GOTO1995
1990 d=POL(H,V)
1995 GOSUB20:GOSUB180:x=N+X:y=E+Y:R$c$+"P":d=d*M:IF K=3 OR K=4 THEN
GOSUB110:GOSUB105
2000 GOSUB80:GOSUB30:GOSUB43:IF K$="1" GOTO1940
2010 GOTO1000
2100 H$="[X-Section]":GOSUB30:GOSUB210:SETFu
2110 H$="[X-Section]":GOSUB30:R$="1:Resec 2:Inter "+k$:GOSUB45:P=VAL(K$)
2120 H$="[Resection]":IF P=2 THEN H$="[Intersection]"
2125 ON P GOTO2150,2600
2130 GOTO1000
2150 GOSUB30
2160 R$="1:Az"+v$+"X 2:Hz"+v$+"X 3:X on BL 4:Beck ":GOSUB45:K=VAL(K$):IF K=3
GOTO2400
2170 IF K=4 GOTO2110
2180 GOSUB310:GOSUB320
2190 R$="Az 1"+v$+"X":IF K=2 THEN R$="Ang X<1>2"
2200 GOSUB50:GOSUB140:E=a
2210 R$="Az 2"+v$+"X":IF K=2 THEN R$="Ang 1<2>X"
2220 GOSUB50:GOSUB140:F=a
2230 IF K=2 GOTO2270
2250 r=G-E:GOSUB280:E=r
2260 r=F-H:GOSUB280:F=r
2270 O=1/TANE:P=1/TANF
2280 y=((A-C)+D*O+B*P)/(O+P):x=((D-B)+C*O+A*P)/(O+P)
2320 GOSUB79:GOTO2110
2400 GOSUB30:R$=" 1:Squ 2:Azi "+k$:GOSUB45:K=VAL(K$)

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2410 ON K GOTO2430,2430
2420 GOTO2110
2430 GOSUB310:GOSUB320
2440 R$=h$+"3":GOSUB60:N=x:E=y:IF K=1 GOTO2460
2450 R$="Az 3"+v$+"X":GOSUB50:GOSUB140:Z=a
2460 x=N-A:y=E-B:GOSUB190:F=Y:P=X:a-F:GOSUB160:E=a
2470 r=G-F:GOSUB280:m=r
2475 IF m>180 THEN m=360-m
2480 IF K=2 GOTO2500
2490 V=P*SINm:H=P*COSm:GOTO2520
2500 r=E-Z:GOSUB280:O=r
2505 IF O>180 THEN O=360-O
2510 I=180-O-m:R=P/SINI:V=R*SINm:H=R*SINO
2520 a=G:d=H:GOSUB180:x=X+A:y=Y+B:GOSUB79:R$="Distance of X":K=L-H
2530 LOCATE0,1:PRINT"(3";v$;"X");V;:LOCATE16,1:PRINT"(2";v$;"X");K;
2535 LOCATE16,0:PRINT"(1";v$;"X");H;:GOSUB120
2550 GOTO2110
2600 GOSUB30:GOSUB310:GOSUB320:R$=h$+"3":GOSUB60:E=x:F=y
2610 R$="Ang 1<X>2":GOSUB50:GOSUB140:P=a
2620 R$="Ang 2<X>3":GOSUB50:GOSUB140:0=a
2630 GOSUB40:LOCATE0,0:PRINT">Please waited...";
2640 x=E-C:y=F-D:GOSUB190:Z=X:I=Y:a=Y:GOSUB150:J=a
2650 r=H-I:GOSUB280:R=r
2660 K=1:IF P+O>R THEN K=2
2670 IF R>180 THEN K=3:R=360-R
2680 V=360-(P+O+R):IF K=3 THEN V=R-P-O
2690 T=ATN(1/((1/TANV)+(Z*SINP)/(L*SINO*SINV))):IF T<0 THEN T=T+180
2700 S=V-T:m=Z*SINT/SINO:e=180-P-S:f=180-O-T
2710 b=L:c=m:X=e:GOSUB350:n=a:b=Z:X=f:GOSUB350:o=a
2720 a=H+S:GOSUB160:t=a:a=J+f:GOSUB160:s=a:r=J-T:GOSUB280
2730 d=m:a=s:GOSUB180:C=C+X:D=D+Y:d=n:a=t:GOSUB180:A=A+X:B=B+Y:d=o:a=r:GOSUB1
80:E=E+X:F=F+Y
2740 x=(A+C+E)/3:y=(B+D+F)/3:GOSUB79
2750 GOTO2110
2800 H$="[Drection]":GOSUB30:GOSUB210:SETFu
2810 GOSUB30:R$="1:Loop 2:Others "+k$:GOSUB45:K=VAL(K$):ON K GOTO2850,2950
2820 GOTO900
2850 GOSUB48:IF a<3 OR a>99 GOTO2850
2860 GOSUB360:GOSUB305
2870 FOR I=1 TO N:x=N(I+1)-N(I):y=E(I+1)-E(I):GOSUB190
2880 A(I)=Y:D(I)=X:NEXT I
2890 A(0)=A(N):FOR I=1 TO N
2900 a=A(I-1):GOSUB160:B=a:r=A(I)-B:GOSUB280
2910 B(I)=r:NEXT I:GOSUB20
2920 FOR I=1 TO N:G=I:GOSUB130:J$=R$:G=I+1:IF I=N THEN G=1
2930 GOSUB130:I$=R$:R$=b$+J$+v$+R$:LOCATE15,0:PRINT"Az>";DMS$(A(I));
2935 a=B(G):d=D(I):GOSUB270:NEXT I
2940 GOTO10
2950 GOSUB30:R$="1:p/p 2:OL 3:OS 4:Ref 5:Back ":GOSUB45
2955 K=VAL(K$):ON K GOTO2970,3000,3000,3000,2810
2960 GOTO2950
2970 GOSUB310:GOSUB320
2972 R$=b$+"1"+v$+"2":IF K=2 THEN R$=b$+"1"+v$+"X"
2975 X=x:Y=y:GOSUB105:d=L:a=G:GOSUB110
2980 GOSUB30:GOSUB43:IF K$="1" AND K=1 GOTO2970
2985 IF K$="1" AND K=2 GOTO3040
2990 GOTO10
3000 GOSUB44:GOSUB310:IF K$="1" THEN GOSUB320:GOTO3040
3030 R$="Az 1"+v$+"2"
3035 GOSUB50:GOSUB140:G=a
3040 R$="Peg X":IF K=3 THEN R$="Peg P"
3045 GOSUB60:N=x:E=y
3050 x=N-A:y=E-B:GOSUB190:d=X:P=Y

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3060 IF K=2 THEN L=X:G=P:GOTO2972
3070 IF K=3 GOTO3120
3080 r=P-G:GOSUB280
3090 a=r:R$=b$+"1"+v$+"X":T$="1":GOSUB270
3100 GOSUB30:GOSUB43:IF K$="1"GOTO3040
3110 GOTO10
3120 IF G<=180 GOTO3128
3122 h$=CHR$(227):r=P-G:GOSUB280:IF r>90 THEN r=360-r:h$=CHR$(229)
3125 GOTO3130
3128 h$=CHR$(229):r=P-G:GOSUB280:IF r>90 THEN r=360-r:h$=CHR$(227)
3130 V-d*SINr:H=d*COsr:R$=c$+"P"
3140 LOCATE16,0:PRINT"(X";Y$;"1)";H;:LOCATE16,1:PRINT"(X";h$;"P)";V;:GOSUB120
3150 GOSUB30:GOSUB43:IF K$="1"GOTO3040
3160 GOTO10
3200 H$="[Areas]":GOSUB30:GOSUB210:SETFu
3205 H$="[Areas]"
3210 GOSUB30:R$="1:Find 2:Fixed "+k$:GOSUB45:K=VAL(K$):ON K GOTO3250,3250
3220 GOTO10
3250 R$="1:N&E 2:Triangle "+k$:GOSUB45:J=VAL(K$):ON J GOTO3270,3270
3260 GOTO3210
3270 H$="[Find area]":IF K=2 THEN H$="[Fixed area]"
3275 IF K=1 AND J=2 GOTO3600
3280 IF K=2 AND J=1 GOTO3950
  3285 IF K=2 AND J=2 GOTO3950
  3300 GOSUB30:R$="1:N"+o$+"E 2:E+W "+k$:GOSUB45:L=VAL(K$)
  3310 ON L GOTO3330,3330
  3320 GOTO3250
  3330 GOSUB48:IF a<3 GOTO3330
  3340 GOSUB360:GOSUB305:T=0:R=0:GOSUB450
  3350 R$="(Y)Product "+t$:GOSUB45:IF K$<>"Y" THEN K$="N"
  3360 GOSUB20
  3370 FOR I=1 TO N:Y=I+1:IF I=N THEN Y=1
  3372 IF L=1 GOTO3380
  3374 P=N(Y)-N(I):H=E(Y)+E(I):O=ROUND(H*P,t)
  3375 IF O<0 THEN R=R+O:GOTO3385
  3376 T=T+O:GOTO3385
  3380 O=ROUND(N(I)*E(Y),t):P=ROUND(-(E(I)*N(Y)),t):T=T+O:R=R+P
  3385 SETF5:TF K$="N"GOTO3450
  3390 G=I:GOSUB130:i$=R$:G=Y:GOSUB130:j$=R$:IF L=2 GOTO3420
  3395 F$="[N"+i$+o$+"E"+j$+"]":B$="[E"+i$+o$+"N"+j$+"]"
  3400 LOCATE2,1:PRINTF$;:LOCATE17,1:PRINTB$;
  3410 LOCATE1,0:PRINTO;:LOCATE16,0:PRINTP;:GOSUB25:GOTO3450 :
  3420 F$=b$+i$+v$+j$
  3430 LOCATE0,1:PRINTF$;:LOCATE14,1:PRINT"[N";o$;"E]";O;:SETFu
  3440 LOCATE0,0:PRINT"[N-S]";P;:LOCATE14,0:PRINT"[E+W]";H;:GOSUB25
  3450 NEXT I:SETF5
3460 LOCATE6,1:PRINTe$;"[-]";ABS(R);:LOCATE6,0:PRINTe$;"[+]";T;:GOSUB25
3465 A=ABS(T+R)/2:SETN
3466 LOCATE9,1:PRINT"(Area)";A;:SETF5:LOCATE2,0:PRINT"(Double
area)";ABS(T+R);:GOSUB25:SETFu
3470 I=1600:IF U=5 THEN A=A*I
3475 A=A/m:A=A/I
3480 r=INTA:S=FRACA*4:n=INTS:v=ROUND(FRACS,-5)*100
3490 IF v=100 THEN v=0:n=n+1
3500 IF n>4 THEN o=INT(n/4):n=n-o*4:r=r+o
3510 G=r:GOSUB130:A$=R$:G=n:GOSUB130:B$=R$:G=v:GOSUB130:C$=R$
3520 IF v=0 THEN C$="00.00"
3530 G=ROUND(A*T,w):GOSUB130:M$=R$:V$="-"
3540 LOCATE7,1:PRINT"Or = ";M$;q$;:LOCATE5,0:PRINT"Area = ";A$;V$;B$;V$;C$;"
Rai";:GOSUB25
3560 GOTO10
3600 GOSUB30:I=1:T=0:S=0
3605 R$="Y:detail "+t$:GOSUB45:O$=K$:IF O$<>"Y" THEN O$="N"

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3610 G=G+1:GOSUB130:R$=">Tri #"+R$
3620 GOSUB390:GOSUB400:GOSUB410
3630 GOSUB380:T=T+A:GOSUB20:IF O$="N":GOTO3650
3635 LOCATE1,1:PRINT" c>";c;:LOCATE16,1:PRINT":2s>";2*s;
3640 LOCATE1,0:PRINT" a>";a;:LOCATE16,0:PRINT": b>";b;:GOSUB25
3642 LOCATE0,1:PRINT" s-b>";s-b;:LOCATE16,1:PRINT": s-c>";s-c;
3644 LOCATE2,0:PRINT" s>";s;:LOCATE16,0:PRINT": s-a>";s-a;:GOSUB25:GOSUB30:SETN
3646 LOCATE0,0:PRINTR$;" (";o$;");";B;:GOSUB25
    3650 GOSUB30:GOSUB430:SETFu
    3655 GOSUB30:GOSUB43:IF K$="1"GOTO3610
    3658 T=ROUND(T,w)
    3660 S=0:P$=">Pic #":F$=" 1:in 2:out "
    3670 R$-"Y:Trapizodual "+t$:GOSUB45:IF K$="Y"GOTO3690
    3680 GOTO3800
    3690 GOSUB30
    3700 G=G+1:GOSUB130:B$=P$+R$
    3710 R$=B$+F$:GOSUB45:L=VAL(K$):ON L GOTO3730,3730
    3720 GOTO3710
    3730 Q=1:IF L=1 THEN Q=-1
    3740 R$=B$:GOSUB390:GOSUB400:GOSUB420
    3750 A=ROUND(Q*(a+b)*h/2,w):S=S+A:GOSUB430
    3760 GOSUB30:GOSUB43:IF K$="1"GOTO3700
    3800 R=0:R$="Y:Sq-Triangle "+t$:GOSUB45:IF K$="Y"GOTO3830
    3820 GOTO3910
    3830 GOSUB30
    3840 G=G+1:GOSUB130:B$=P$+R$
    3850 R$=B$+F$:GOSUB45:L=VAL(K$):ON L GOTO3870,3870
    3860 GOTO3850
    3870 Q=1:IF L=1 THEN Q=-1
    3880 R$=B$:GOSUB400:GOSUB420
    3890 A=ROUND(Q*b*h/2,w):R=R+A:GOSUB430
3900 GOSUB30:GOSUB43:IF K$="1"GOTO3840
3910 A=T+S+R:GOSUB20:GOTO3470
3950 GOSUB30:R$="1:Par 2:Sqr 3:Peg 4:Back ":GOSUB45:L=VAL(K$)
3960 ON L GOTO3990,3990,3990,3205
3970 GOTO3905
3990 IF J=2 GOTO4500
4000 GOSUB30:IF L=2 OR L=1 GOTO4010
4005 P=0:GOSUB500
4010 G=1:GOSUB130:R$=p$+R$:GOSUB60:A=x:B=y:AA=A:BB=B
4020 G=2:GOSUB130:R$=p$+R$:GOSUB60:C=x:D=y
4030 G=G+1:GOSUB130:R$=p$+R$:GOSUB60:IF L=1 OR L=2 GOTO4150
4035 X=x:Y=y:X0=x:Y0=y
4040 F=C-A:I=D-B:H=X-C:V=Y-D:J=A-X:K=B-Y
4045 L=(I*F+(2*I+V)*H+(2*I+2*V+K)*J)/m
4050 P=P+L:IF ABS(P/2)>W GOTO4070
4060 C=X:D=Y:X1=X:Y1=Y:GOTO4030
4070 A=(2*W-P)/ABSL:GOSUB20
4080 x=ROUND(A*H+X,w):y=ROUND(A*V+Y,w)
4085 X2=x:Y2=y:GOSUB79
4090 x=X2-X1:y=Y2-Y1:GOSUB190:D1=X
4100 x=X2-AA:y=Y2-BB:GOSUB190:D2=X
4110 x=X0-X1:y=Y0-Y1:GOSUB190:DK=X:D3=DK-D1
4120 W$=" (X"+v$:G=G-
    1:GOSUB130:A$=W$+R$+" ) ":G=G+1:GOSUB130:B$=W$+R$+" ) ":C$=W$+" 1 ) "
4130 R$=c$+"X":LOCATE16,0:PRINTC$;D2;:LOCATE0,1:PRINTA$;D1;:LOCATE16,1:PRINTB$;D3;:
    GOSUB120:GOTO10
4150 E=x:F=y:T=0:l=0:CC=C:DD=D
4155 GOSUB580:AX=Y:DX=X
4157 x=E-C:y=F-D:GOSUB190:P1=Y:L1=X:a=Y:GOSUB160:P2=a
4160 G=G+1:GOSUB130:R$=p$+R$:GOSUB60:H=x:I=y:e=G
4170 x=H-C:y=I-D:GOSUB190:A1=Y:D1=X
4180 GOSUB580:A2=Y:D2=X

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4185 r=AX-A1:GOSUB280:G1=r:IF r<90 GOTO4200
4190 GOSUB290:G1=r:IF r<90 GOTO4200
4195 T1=ABS((C*I+H*F+E*D-D*H-T*E-F*C)/(m*2))
4198 T=T+T1:E=H:F=I:GOTO4160
4200 IF L=1 GOTO4204
4202 q=D1*COSG1:a=AX:d=q:GOSUB180:O=C+X:P=D+Y:GOTO4210
4204 a=AX:GOSUB590:X=TANa:a=P2:GOSUB590:Y=TANa
4206 IF X=0 AND Y=0 THEN O=CC:P=I:GOTO4209
4208 x=(X*AA-Y*H-BB+I)/(X-Y):y=X*(x-AA)+BB:O=ROUND(x,w):P=ROUND(y,w)
4209 x=O-C:y=P-D:GOSUB190:q=X
4210 GOSUB600:IF W>0 GOTO4225
4220 GOSUB500
4225 IF W<=T GOTO4240
4230 C=O:D=P:E=H:F=I:GOTO4160
4240 S=T-W:x=O-H:y=P-I:GOSUB190:Z=X:R=Y
4245 GOSUB20:IF L=1 THEN R=P2
4250 x=E-H:y=F-I:GOSUB190:A3=Y:D3=X
4255 r=R-A3:IF r<0 THEN r=A3-R
4260 GOSUB290:j=r:IF L=1 GOTO4370
4262 v=-1:IF j>90 THEN j=180-j:v=1
4265 a=j:GOSUB590:IF a=0 THEN b=Z:h=S/b:GOTO4284
4270 f=1/TANj
4275 b=SQR(Z^2+v*2*S*f):h=2*S/(b+Z):IF L=2 GOTO4284
4278 IF i>90 THEN i=180-i
4280 IF i=0 THEN h=h:GOTO4284
4282 h=h/SINI
4284 a=AX:d=q-h:GOSUB180:NP=C+X:EP=D+Y
4285 x=NP-CC:y=EP-DD:GOSUB190:d=X
4287 LOCATE16,0:PRINT"(2";v$;"P)";X;
4290 x=NP:y=EP:R$c$+"P":GOSUB80
4300 a=R:IF L=1 THEN a=P2
4302 GOSUB160:d=b:GOSUB180:NQ=NP+X:EQ=EP+Y
4305 R$b$+"P"+v$+"Q":GOSUB110
4320 x=NQ-H:y=EQ-I:GOSUB190:K=X:G=e:GOSUB130:u$=R$:d=K:a=A3
4330 IF K>D3/2 THEN G=e-1:GOSUB130:u$-R$:d=D3-K:a=A3:GOSUB160
4340 LOCATE16,0:PRINT("";u$;v$;"Q)";d;
4345 x=NQ:y=EQ:R$c$+"Q":GOSUB80
4350 GOSUB30:GOSUB43:IF K$="1" THEN C=NP:D=EP:E=NQ:F=EQ:T=0:G=e:W=0:GOTO4170
4360 GOTO10
4370 r=AX-P1:GOSUB280:GOSUB290:i=180-r
4380 a=A3:GOSUB160:r=P2-a:GOSUB280:GOSUB290:j=180-r
4390 a=i:GOSUB590:i=a:a=j:GOSUB590:j=a
4400 IF i=0 AND j=0 THEN b=Z:h=S/Z:GOTO4284
4410 IF j=0 THEN jj=0:GOTO4420
4415 jj=1/TANj
4420 IF i=0 THEN ii=0:GOTO4440
4425 ii=1/TANI
4440 b=SQR(Z^2-2*S*(jj+ii)):h=2*S/(b+Z):GOTO4278
4500 GOSUB30:i$="1":T=0:j$="2":G=2:P=0
4520 R$b$+"1"+v$+j$:GOSUB390
4530 E=a:G=G+1:GOSUB130:k$=R$
4540 R$b$+j$+v$+k$:GOSUB400:D=b
4550 R$b$+k$+v$+i$:GOSUB410:C=c
4555 TF a+b<=c OR b+c<=a OR c+a<=b GOTO4500
4560 GOSUB380:T=T+A:P=P+1:IF L=1 OR L=2 GOTO4650
4570 IF W>0 GOTO4585
4580 GOSUB500
4585 IF W<=T GOTO4600
4590 j$=k$:a=c:GOTO4530
4600 GOSUB20:S=T-W:a=E:b=D:c=C:GOSUB355:h=2*S/c
4610 Q=ROUND(h/SINX,w):P=b-Q:b=Q:GOSUB350:O=ROUND(a,w):X$="X"
4620 GOSUB30:LOCATE0,0:PRINT("1"+v$+X$;O;:LOCATE16,0:PRINT(" "+j$+v$+X$;P;
4630 LOCATE16,1:PRINT(" "+k$+v$+X$;Q;:GOSUB25

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4640 GOTO10
4650 IF P=2 GOTO4670
4660 j$=k$:a=c:A1=E:B1=D:C1=C:GOTO4530
4670 D1=D:E1=C:a=C1:b=B1:c=A1:GOSUB355:H=X:J=180-H:V2=H:BS=A1
4680 a=D1:b=E1:c=C1:GOSUB355:I=X:I$="1":J$="2":o=0
4690 a=B1:b=C1:c=A1:GOSUB355:I=I+X:V=64:K=180-I:V1=I
4700 o=o+1:GOSUB500:IF L=2 GOTO4900
4710 R=0:a=J:GOSUBS90:IF a=0 GOTO4730
4720 R=1/TANJ
4730 T=0:a=K:GOSUB590:IF a=0 GOTO4750
4740 T=1/TANK
4750 Y=SQR(A1^2+2*W*(R+T)):h=2*W/(Y+A1)
4760 IF J=90 THEN P=h:GOTO4780
4770 P=h/SINJ
4780 IF K=90 THEN Q=h:GOTO4800
4790 Q=h/SINK
4800 X=H:b=P:c=A1:GOSUB350:p=a
4810 X=I:b=Q:GOSUB350:q=a:D$="(:Y$=")"
4820 V=V+1:P$=CHR$(V):V=V+1:Q$=CHR$(V):GOSUB30
4830 R$=D$+J$+v$+P$+Y$:LOCATE0,0:PRINTR$;P;
4840 R$=D$+I$+v$+Q$+Y$:LOCATE16,0:PRINTR$;Q;
4850 R$=D$+P$+v$+Q$+Y$:LOCATE16,1:PRINTR$;Y;:GOSUB25:GOSUB30
4860 R$=D$+J$+v$+Q$+Y$:LOCATE0,0:PRINTR$;q;
4870 R$=D$+I$+v$+P$+Y$:LOCATE16,0:PRINTR$;p;:GOSUB25:GOSUB30
4880 GOSUB43:IF K$="1" THEN A1=Y:I$=Q$:J$=P$:GOTO4700
4890 GOTO10
4900 IF o=>2 GOTO4950
4905 R=H:S=90-H:IF H>90 THEN R=H-90:S=180-R-I:GOTO4920
4910 v=A1/SINR:F=A1*COSR:O=F*v/2:A1=v:GOTO4930
4920 F=A1*SINR/SINS:v=A1*SINI/SINS:a=A1:b=F:c=v:GOSUB380:O=A:A1=v
4930 t=I-S:IF V2>90 THEN t=180-S
4940 W=W-O:I=t
4950 H=90:I=t:IF o=1 THEN H=V2
4955 Y=SQR(A1^2-2*W/TANI):h=2*W/(A1+Y):P=h
4958 IF o=1 THEN I=V1:A1=BS
4960 Q=h/SINS:IF I<90 THEN Q=h/SINI
4970 IF o>1 GOTO4800
4980 IF V2<90 THEN P=P+F
4985 IF V2>90 THEN Q=Q+F
4990 GOTO4800
5000 H$="[Triangle problem] ":GOSUB30:GOSUB210:SETFu:S$="Angle of "
5010 A$=S$+"A":B$=S$+"B":C$=S$+"C":D$="Dis "
5025 R$=" 1:abc 2:bcA 3:abA 4:cAB 5:aAB 6:bC,Ar "+k$:GOSUB45:K=VAL(K$):GOSUB30
5030 ON K GOTO5050,5050,5060,5050,5060,5070
5040 GOTO10
5050 R$=D$+"AB":GOSUB410:F=c:IF K=2 GOTO5070
5054 IF K=4 GOTO5110
5060 R$=D$+"BC":GOSUB390:D=a:IF K=5 GOTO5110
5070 R$=D$+"CA":GOSUB400:E=b:IF K=2 OR K=3 GOTO5110
5074 IF K=6 GOTO5160
5080 GOSUB355:A=X
5090 a=F:b=D:c=E:GOSUB355:C=X
5100 B=180-A-C:GOTO5200
5110 R$=A$:GOSUB50:GOSUB140:A=a
5112 X=A:IF K=4 OR K=5 GOTO5130
5115 IF K=3 THEN B=ASN(E*SINA/D):GOTO5140
5120 GOSUB350:D=a:a=E:b=D:c=F:GOSUB355:B=X:C=180-A-B:GOTO5200
5130 R$=B$:GOSUB50:GOSUB140:B=a
5140 C=180-A-B:IF K=3 THEN F=D*SINC/SINA:GOTO5200
5142 IF K=5 THEN O=D/SINA:F=O*SINC:E=O*SINB:GOTO5200
5150 O=F/SINC:E=O*SINB:D=O*SINA:GOTO5200
5160 R$=C$:GOSUB50:GOSUB140:C=a
5170 R$="Area":GOSUB50:S=a/m

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5180 D=2*S/(E*SINC):X=C:b=E:c=D:GOSUB350:F=a
5190 a=D:b=E:c=F:GOSUB355:A=X:B=180-A-C
5200 GOSUB20:Y=F*SINA:X=E*SINC:Z=D*SINB
5210 O=D*COSB:P=F*COA:Q=E*COSC
5230 LOCATE0,1:PRINT"(XA)";X;:LOCATE15,1:PRINT"(XC)";Q;
5235 LOCATE0,0:PRINT"(AB)";D;:LOCATE15,0:PRINT"HZ:A";DMS$(A);:GOSUB25
5240 LOCATE0,1:PRINT"(YB)";Y;:LOCATE15,1:PRINT"(YA)";P;
5245 LOCATE0,0:PRINT"(BC)";E;:LOCATE15,0:PRINT"HZ:B";DMS$(B);:GOSUB25
5250 LOCATE0,1:PRINT"(ZC)";Z;:LOCATE15,1:PRINT"(ZB)";O;
5255 LOCATE0,0:PRINT"(CA)";F;:LOCATE15,0:PRINT"HZ:C",DMS$(C);:GOSUB25
5260 GOSUB30:GOSUB43:IF K$="1" GOTO5000
5270 GOTO10
5300 H$="[Circular curve] ":GOSUB30:Y=1:GOSUB210:SETFu
5310 R$="Start on 1:PC 2:PI 3:PT 4:Back":GOSUB45:S=VAL(K$)
5320 ON S GOTO5340,5340,5340,10
5330 GOTO5310
5340 GOSUB700:K=0:A=0:T=0:R=0:L=0:l=0:N=0
5350 CLS:LOCATE0,1:PRINT"<1: ";d$;"><2:T><3:R><4:Lc><5:LC><6:M>";
5370 LOCATE0,0:PRINT"Get> ";:W$=INPUT$(1):BEEP:K=K+1
5380 IF W$="1" THEN LOCATE1,1:PRINTm$;:LOCATE5,0:PRINTd$;:INPUT" = ",A:
GOSUB35:GOTO5450
5390 IF W$="2" THEN LOCATE6,1:PRINTm$;:LOCATE5,0:INPUT"Tangent = ",T:
GOSUB35:GOTO5450
5400 IF W$="3" THEN LOCATE11,1:PRINTm$;:LOCATE5,0:INPUT"Radius = ",R:
GOSUB35:GOTO5450
5410 IF W$="4" THEN LOCATE16,1:PRINTm$;:LOCATE5,0:INPUT"Curve lenght = ",l:
GOSUB35:GOTO5450
5420 IF W$="5" THEN LOCATE22,1:PRINTm$;:LOCATE5,0:INPUT"Chord lenght = ",L:
GOSUB35:GOTO5450
5430 IF W$="6" THEN LOCATE28,1:PRINTm$;:LOCATE5,0:INPUT"Middle ordinate = ",N:
GOSUB35:GOTO5450
5440 K=K-1:GOTO5370
5450 IF W$="1" AND A<=0 THEN LOCATE1,1:PRINT"1";:K=K-1:GOTO5370
5460 IF W$="2" AND T<=0 THEN LOCATE6,1:PRINT"2";:K=K-1:GOTO5370
5470 IF W$="3" AND R<=0 THEN LOCATE11,1:PRINT"3";:K=K-1:GOTO5370
5480 IF W$="4" AND l<=0 THEN LOCATE16,1:PRINT"4";:K=K-1:GOTO5370
5490 IF W$="5" AND L<=0 THEN LOCATE22,1:PRINT"5";:K=K-1:GOTO5370
5500 IF W$="6" AND Lc=0 THEN LOCATE28,1:PRINT"6";:K=K-1:GOTO5370
5510 K=K+1:IF K>2 GOTO5530
5520 GOTO5370
5530 a=A:GOSUB140:b=a/2:d=18E3/PI:e=180/PI:GOSUB30
5540 IF a>0 AND T>0 THEN R=T/TANb:GOTO5680
5550 IF a>0 AND R>0 GOTO5680
5560 IF a>0 AND l>0 THEN R=l*e/a:GOTO5680
5570 IF a>0 AND L>0 THEN R=L/(2*SINb):GOTO5680
5580 IF a>0 AND N>0 THEN R=N/(1-COSb):GOTO5680
5590 IF T>0 AND R>0 THEN a=2*ATN(T/R):GOTO5680
5600 IF T>0 AND L>0 THEN a=2*ACS(L/(2*T)):R=L/(2*SIN(a/2)):GOTO5680
5610 IF R>0 AND l>0 THEN a=L*e/R:GOTO5680
5620 IF R>0 AND L>0 THEN a=2*ASN(L/R):GOTO5680
5630 IF R>0 AND N>0 THEN a=2*ACS(1-(N/R)):GOTO5680
5640 IF L>0 AND N>0 THEN a=4*ATN(2*N/L):R=L/(2*SIN(a/2)):GOTO5680
5650 GOSUB30:R$="* please input new data again *":GOSUB45:GOTO5340
5680 D=INT(d/R):R=ROUND(M*d/D,w):l=ROUND(M*100*a/D,w)
5690 B=a/2:T=ROUND(R*TANB,w):L=ROUND(2*R*SINB,w)
5695 E=ROUND(T*TAN(a/4),w):N=ROUND(R*(1-COSB),w):k=.005
5710 P0=I:IF S=2 THEN P0=I-T
5720 IF S=3 THEN P0=I-l
5740 a=25:R$="arc 0:User "+a$+"Standard ":GOSUB45:IF K$="0" THEN
GOSUB40:R$="arc":GOSUB50
5745 a=a*M:P1=P0+T:P2=P0+l:Q=(INT(INTP0/a)+1)*a:b=Q-P0:H=P0+b
5750 Q=INT(INTP2/a)*a:c=P2-Q:J=P2-c:D0=ROUND(k*a*D,w)
5760 D1=ROUND(k*b*D,w):D2=ROUND(k*c*D,w):F=((J-H)/a)+2

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5770 GOSUB20
5780 LOCATE0,1:PRINT"R :";R;:LOCATE16,1:PRINT"Lc:";1;
5790 LOCATE0,0:PRINTd$;" :";DMS$(B*2);:LOCATE16,0:PRINT"LC:";L;:GOSUB25
5800 LOCATE0,1:PRINT"T :";T;:LOCATE16,1:PRINT"E :";E;
5810 LOCATE0,0:PRINT"D :";DMS$(D);:LOCATE16,0:PRINT"M :";N;:GOSUB25
5820 LOCATE1,1:PRINT"PC stat PI stat PT sta.";
5830 LOCATE0,0:PRINTP0;:LOCATE11,0:PRINTP1;:LOCATE22,0:PRINTP2;:LOCATE30,1:GOSUB25
5840 C0=ROUND(2*R*SIND0,w):C1=ROUND(2*R*SIND1,w):C2=ROUND(2*R*SIND2,w)
5850 LOCATE0,1:PRINT"d :";DMS$(W);:LOCATE17,1:PRINT"c :";C0;:LOCATE11,0:PRINT"a
: ";a;:GOSUB25

5860
LOCATE0,1:PRINT"d1:";DMS$(D1);:LOCATE17,1:PRINT"c1:";C1;:LOCATE11,0:PRINT"a1:";b;:
GOSUB25

5870
LOCATE0,1:PRINT"d2:";DMS$(D2);:LOCATE17,1:PRINT"c2:";C2;:LOCATE11,0:PRINT"a2:";c;:
GOSUB25

5880 H$="[Lay-out]":GOSUB30:V=0:G=P0
5882 R$="Curve on 1:LT "+a$+"RT ":GOSUB45:X=1:IF K$="1" THEN X=2
5890 FOR I=1 TO F:A=a:B=D0:C=C0
5900 IF I=1 THEN A=b:B=D1:C=C1
5910 IF I=F THEN A=c:B=D2:C=C2
5915 G=G+A:V=V+B:Z=V:IF X=2 THEN Z=360-V
5917 LOCATE14,1:PRINT"Sub chord";C;
5920 LOCATE0,0:PRINT"Sta";G;:LOCATE15,0:PRINT"HZ:";DMS$(Z);:GOSUB25:GOSUB30
5930 NEXT I
5940 GOTO10

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