

SURVEY2D

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ClrText
Norm
"STN EAST"?→A
"STN NORTH"?→C
Lbl 1
ClrText
"    MENU:"
"[1] RO BRG"
"[2] RO COORD"?→M
ClrText
If M=2
Then Goto 2
IfEnd
If M=1
Then Goto 3
IfEnd
Goto 1
Lbl 2
"RO EAST"?→I
"RO NORTH"?→J
ClrText
I→A→E:J→C→N
 $\sqrt{(E^2+N^2)}$ →D
If N=0
Then Goto 7
IfEnd
If N<0
Then Goto 8
IfEnd
 $\tan^{-1}(E \div N)$ →B
If B<0
Then B+360→B
IfEnd
Goto 4
Lbl 7
If E>0
Then 90→B
Else 270→B
IfEnd
Goto 4
Lbl 8
 $\tan^{-1}(E \div N)+180$ →B
Goto 4
Lbl 3
"RO BEARING"?→B
Lbl 4
Norm
ClrText
"HORZ ANGLE"?→K
"HZ DIST"?→F
ClrText
B+K→G
 $\sin(G) \times F + A \rightarrow Y$ :  $\cos(G) \times F + C \rightarrow Z$ 
Fix 3
"EASTING:"
Y↵

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"NORTHING:"

Z▲

ClrText

Goto 4