```
Lbl 1
Norm
ClrText
"    MENU:"
"[1] RESTART"
"[2] CONTINUE"?→M
ClrText
If M=1
Then Goto 2
IfEnd
If M=2
Then Goto 3
IfEnd
Goto 1
Lbl 2
"OLD EAST 1"?→P
"OLD NORTH 1"?→Q
"OLD EAST 2"?→R
"OLD NORTH 2"?→S
ClrText
"NEW EAST 1"?→U
"NEW NORTH 1"?→V
"NEW EAST 2"?→W
"NEW NORTH 2"?→X
ClrText
Lbl 3
R−P→E:S−Q→N
√(E²+N²)→D
If N<0
Then tan⁻¹ (E÷N)+180→B
Goto 5
IfEnd
If N>0
Then tan⁻¹ (E÷N)→B
Goto 5
IfEnd
If E>0
Then 90→B
Else 270→B
IfEnd
Lbl 5
If B<0
Then B+360→B
IfEnd
B→G:D→H
W−U→E:X−V→N
√(E²+N²)→D
If N<0
Then tan⁻¹ (E÷N)+180→B
Goto 6
IfEnd
If N>0
Then tan⁻¹ (E÷N)→B
Goto 6
IfEnd
If E>0
Then 90→B
Else 270→B
IfEnd
Lbl 6
If B<0
Then B+360→B
IfEnd
B→I:D→J
G−I→K:J÷H→L
Fix 4
"OLD BASE:"
H◢
"NEW BASE:"
J◢
Norm
ClrText:"SCALE:"
L◢
Fix 1
"ERROR MM:KM"
Abs (1000000−(L×1000000))→T
T◢
ClrText
L×cos K→F:L×sin K→M
U−(P×F)+(Q×M)→O:V−(P×M)−(Q×F)→T
Lbl 4
Norm:"OLD EAST"?→A
"OLD NORTH"?→C
```

```
ClrText
O+(A×F)−(C×M)→Y:T+(A×M)+(C×F)→Z
Fix 3
"NEW EAST:"
Y◢
"NEW NORTH:"
Z◢
ClrText
U−Y→E:V−Z→N
√(E²+N²)→D
If N<0
Then tan⁻¹ (E÷N)+180→B
Goto 7
IfEnd
If N>0
Then tan⁻¹ (E÷N)→B
Goto 7
IfEnd
If E>0
Then 90→B
Else 270→B
IfEnd
Lbl 7
If B<0
Then B+360→B
IfEnd
Norm
"BEARING→1:"
B◢
W−Y→E:X−Z→N
√(E²+N²)→D
If N<0
Then tan⁻¹ (E÷N)+180→B
Goto 8
IfEnd
If N>0
Then tan⁻¹ (E÷N)→B
Goto 8
IfEnd
If E>0
Then 90→B
Else 270→B
IfEnd
Lbl 8
If B<0
Then B+360→B
IfEnd
"BEARING→2:"
B◢
ClrText:Goto 4
```