

WRITTEN

BY JOHN BUTCHER
PROGRAMS FOR THE HP 33S
TRAVERSE/INVERSE for south based azimuth only

T01 LBL T
T02 INPUT N (BEGINNING NORTHING)
T03 INPUT E (BEGINNING EASTING)
T04 INPUT A (AZIMUTH)
T05 INPUT D (HORIZONTAL DISTANCE)
T06 RCL A
T07 ->HR
T08 0
T09 +
T10 RCL D
T11 O,r->y,x
T12 RCL+N
T13 STO N
T14 x<>y
T15 RCL+E
T16 STO E
T17 GTO T
T18 RTN

NEW COORDINATES WILL BE DISPLAYED IN THE BEGINNING NORTHING AND EASTING INPUT LINES FOR CONTINUED TRAVERSING.

INVERSE

I01 LBL I
I02 INPUT N(BEGINNING NORTHING)
I03 INPUT E (BEGINNING EASTING)
I04 INPUT Y (ENDING NORTHING)
I05 INPUT X (ENDING EASTING)
I06 RCL E
I07 RCL X
I08 -
I09 RCL N
I10 RCL Y
I11 -
I12 y,x->O,r
I13 STO D
I14 x<>y
I15 0
I16 +
I17 ->HMS
I18 STO A
I19 R/S (STOP)
I20 GTO I
I21 RTN

LAST LINES DISPLAYED IS DISTANCE THEN AZIMUTH. PROGRAM RETURNS TO INVERSE AND FIRST NORTHING AND EASTING ARE RETURNED FOR CONTINUOUS INVERSING.

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