```
hw6a
number of observations
nobs =
    60
number of points
npnt =
     6
number of fixed coordinate components
ncpc =
     3
number of unknown parameters
nunkn =
    15
redundancy
red =
    45
show iteration number and vTWv
ans =
                         1          40.0797611194736
ans =
                         2           40.079747532358
ans =
                         3          40.0797475324275
we have converged
finished
parameters x y z
ans =
          1          400.016299647211          6500.01000536148          3.63025643090932
          2           899.99149540411          6599.99962461729            5.759608673202
          3          1200.00418697577          6300.00031972918          1.13442659705794
          4          900.004239101238                      5800          5.28840120268526
          5                       500                      5900         0.226923450472909
          6          800.012298843632          6299.99777536014          2.09441998529864
number residual obs-code
units: meters & arc-seconds
ans =
                         1        0.0255929940852037                         1
                         2       -0.0182766906976616                         1
                         3        0.0636584938234119                         1
                         4        0.0234428702823723                         1
                         5        0.0454866764518515                         1
                         6        0.0355929940852515                         1
                         7        0.0625515955748039                         1
                         8        0.0196247187908099                         1
                         9      -0.00877052265460252                         1
                        10       0.00294240391733427                         1
                        11       -0.0582766906976252                         1
                        12        0.0225515955747835                         1
                        13        0.0754368317413632                         1
                        14     -0.000431225047090647                         1
                        15      -0.00811185977429499                         1
                        16        -0.016341506176629                         1
                        17       -0.0203752812091538                         1
                        18       -0.0645631682586231                         1
                        19        0.0346750953210652                         1
                        20       -0.0118106704394228                         1
                        21       0.00344287028239045                         1
                        22        0.0212294773453702                         1
                        23        -0.100431225047113                         1
                        24        0.0146750953210265                         1
                        25        0.0755997191408524                         1
                        26        -0.084513323548144                         1
                        27       -0.0170575960826475                         1
                        28        0.0518881402257073                         1
                        29       -0.0318106704394046                         1
                        30        -0.054400280859143                         1
                        31         0.727728400067546                         2
                        32          9.02135860453051                         2
                        33          13.7522212542051                         2
                        34         -7.27863482241157                         2
```

35	-16.2226734363916	2
36	5.42204008067181	2
37	-10.7204479056327	2
38	4.26324107906919	2
39	-16.6158675403557	2
40	17.6510342862474	2
41	-4.05053631717488	2
42	-0.167954509426216	2
43	3.71827035082792	2
44	-10.0254747376007	2
45	10.5256952133739	2
46	-5.30485874448688	2
47	4.72384939849675	2
48	13.8330852732462	2
49	-1.00927876469796	2
50	-12.2427971625581	2
51	7.80706924606764	2
52	11.8416248464692	2
53	-21.952775745285	2
54	3.84660530374441	2
55	-1.54252365099627	2
56	0.750207678302316	2
57	-14.6451962773162	2
58	-12.3937287471614	2
59	1.84916395198107	2
60	24.4395533941942	2

```
test_stat dof P alpha
ans =
40.0797475324275                        45          0.31994874039014          0.68005125960986
passed global test at 0.05
covariance matrix for point
i =
     1
subm =
      0.000996168456021278      0.000359607223773664
      0.000359607223773664      0.000536209959067442
covariance matrix for point
i =
     2
subm =
       0.00123393232179161     -0.000261362779342196
     -0.000261362779342196      0.000350720298363181
covariance matrix for point
i =
     3
subm =
      0.000616900669368654     -0.000345802145795837
     -0.000345802145795837      0.000802777600479348
covariance matrix for point
i =
     4
subm =
      0.000513285632366697                         0
                         0                         0
covariance matrix for point
i =
     5
subm =
     0     0
     0     0
covariance matrix for point
i =
     6
subm =
      0.000567134569860404     -5.6401517738031e-005
    -5.64015177380309e-005      0.000259700265998888
diary off
```