CE506 Homework #10, assigned 22-Nov, due 3-Dec

1. Determine by general least squares the circle parameters that fit the indicated points. Sigma of all coordinate data is 0.2. Report, as a minimum, the circle parameters and the observation residuals.



(more)

2. Adjust the following quadrilateral figure, using points 1 & 2 as fixed control points, with eight angle observations (sigma = 10 sec), and one distance observation (sigma = 0.03 m). Use either Starnet or Move3. Option: confirm the results with your own network program.



Observations		
a1	69-18-12 dms	
a2	25-33-19	
a3	58-19-30	
a4	61-36-28	
a5	34-30-19	
a6	63-56-59	
a7	19-56-29	
a8	26-48-39	
d1	538.546 m	

2

Control Points		
	Х	Y
1	3400.0 m	7800.0 m
2	4700.0 m	7500.0 m