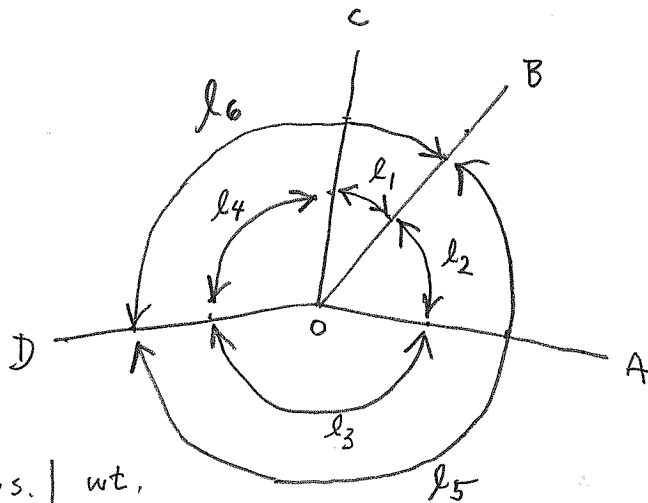


28 Aug 2019

Homework 1

Adj. of Geosp. Obs.

1.



In the adjacent figure, angles $l_1 \rightarrow l_6$ are observed. angle AOC is fixed at 90° .

Show the model elements n, n_0, r and solve the LS problem by indirect observations using scalar algebra.

	obs.	wt.
l_1	35°	1
l_2	54°	1
l_3	165°	1
l_4	104°	1
l_5	221°	1
l_6	140°	1

2. Solve the same LS problem using observations only and use weights 2, 1, 1, 2, 1, 1 for $l_1 \rightarrow l_6$.

due 1 week, wed. 4 Sept.

Show all of your work. You may use matlab or excel or ... to solve the normal equations.