

Melisey Bradley
 Due Thurs. 23

ITCM 310 – Plane Surveying
 Assignment #2 – Differential Leveling

5-7. Plan-view sketches of benchmark leveling runs are shown in Fig. 5-39. Along each line representing a sight is the value of the rod reading for that sight. The numbering of the TPs shows the direction of the level run. Place the data in the form of field notes. Include the arithmetic check. Assuming that the average length of each BS and FS is 125 ft, determine the order of accuracy of the survey.

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 10

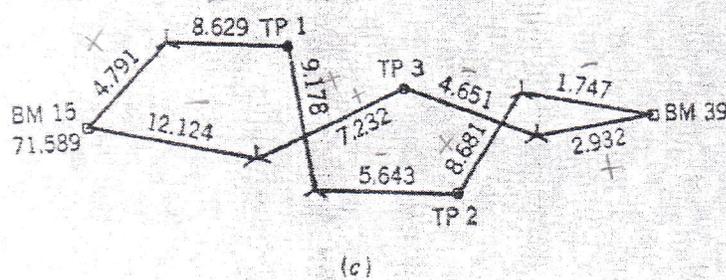
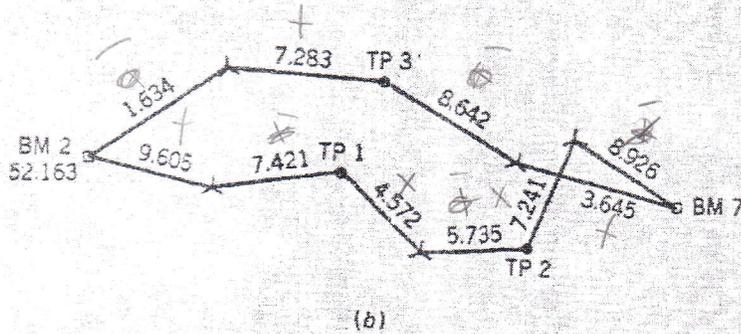
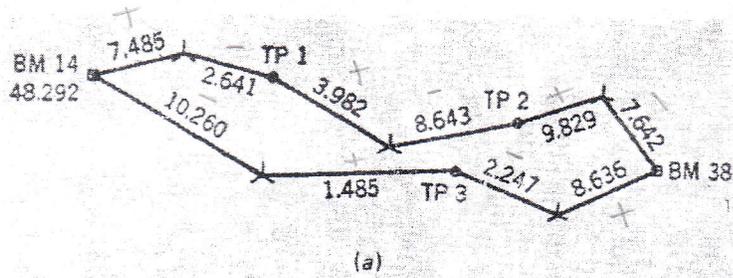


Fig. 5-39 Illustration for Prob. 5-7.

Source
 Nathanson and Kissam, Surveying Practice, 4th Ed. 1988. McGraw Hill, Inc.

Station	Sight	HI	Sight	Elev.	Dist.
BM15				71.589	
TP1	4.791	76.380	8.629	67.751	
TP2	9.178	76.929	7.643	71.286	
BM39	8.681	79.767	1.747	18.220	
TP3	2.932	81.152	4.651	76.501	
	7.232	83.733	12.124	71.609	

$$\frac{1250}{5.02} = 62,500$$

$$1:62,500$$

