

CIVL 1112 – Assignment #2

Name: _____

Objective

The purpose of this assignment is twofold: first, you will have an opportunity to practice your skills in computing elevations from data recorded from a differential leveling survey, and second, you will get a chance to practice your skills in developing simple engineering spreadsheets for surveying applications.

You **must** submit the coversheet for the assignment, your work for Parts 1-2, and printouts of Parts 3-4. Also, submit your Excel file for Parts 3-4 to the Dropbox in Canvas.

Problems

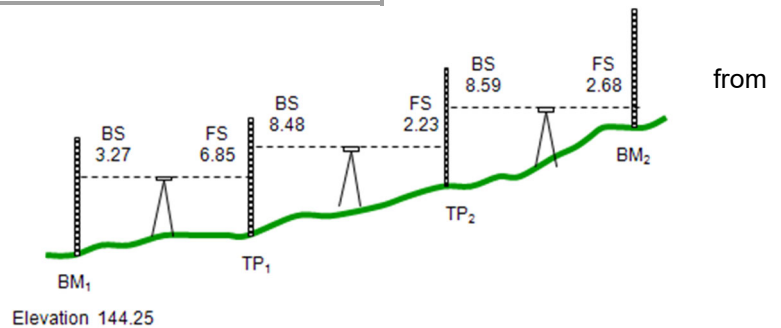
1. Complete and check the level notes shown below by hand calculations.

Station	BS	HI	FS	Elevation
BM ₁	1.23			100.00
TP ₁	4.52		6.64	
TP ₂	6.78		7.54	
TP ₃	3.71		3.25	
BM ₂			9.98	

2. Complete and check the level notes shown below by hand calculations.

Station	BS	HI	FS	Elevation
BM ₁	4.72			864.38
TP ₁	7.12		3.56	
TP ₂	9.45		3.78	
TP ₃	3.95		4.98	
TP ₄	3.15		6.84	
BM ₂			1.54	

3. Develop a spreadsheet to compute the elevations backsight (BS) and foresight (FS) data.



4. Use your spreadsheet to compute the elevations from backsight (BS) and foresight (FS) data.

