Quiz 2 (30 points)

1. Estimate the Elevations (loop leveling) and fill the required fields in the following table (13 points)

Assume a height for the BM before you proceed

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Station | BS | IS | FS | HI | RL | Remarks |
| BM | 1.034 |  |  |  |  |  |
| 0 |  | 1.961 |  |  |  |  |
| 20 |  | -0.672 |  |  |  |  |
| 40 | 2.741 |  | 0.488 |  |  |  |
| 60 |  | 2.571 |  |  |  |  |
| 80 |  | -1.991 |  |  |  |  |
| 100 | 0.512 |  | 1.632 |  |  |  |
| 120 |  | 1.773 |  |  |  |  |
| BM |  |  | 2.164 |  |  |  |
|  |  |  |  |  |  |  |

1. Do the necessary checks (8 points)
2. estimate the closure error and check if it is acceptable (6 points)
3. Adjust the elevation of stations 0, 60 and 100 (6 points)

B) Draw a vertical profile with a horizontal scale of 1:100 and vertical scale 1:10 (10 points)