Assignment

Dear CVG 2171 students,

Please solve the problems below and return them to you TA at the next tutorial session.

1- Convert the azimuths from north to bearings, and compute the angles, smaller than 180° between successive azimuths.

$$98°12'55'', 153°26'40'', 192°56'22'', \text{ and } 288°12'50''$$

2- Convert the bearings to azimuths from north and compute the angle, smaller than 180°, between successive bearings.

$$N32°42'38''E, S54°02'02''E, S22°42'56''W, \text{ and } N44°35'26''W$$

3- Course AB of a five-sided traverse runs due north. From the given balanced interior angles to the right, compute and tabulate the bearings and azimuths from north for each side of the traverses in

$$A = 82°13'15'', B = 106°35'18'', C = 28°45'06'', D = 205°14'56'', E = 117°11'25''$$

4- What magnetic bearing is needed to retrace a line for the conditions stated in

1875 Magnetic Bearing	1875 Declination	Present Declination
N32°45′E	8°12′W	2°30′E

5- In Figure 8.9(c), direct and reversed directions observed with a total station instrument from A to points B, C, and D are listed in below. Determine the values of the three angles, and the horizon misclosure.

Direct: 0°00′00″, 106°52′06″, 191°38′43″, 359°59′58″

Reverse: 0°00′00″, 106°52′04″, 191°38′41″, 0°00′00″

Good luck,