TRIBHUWAN UNIVERSITY INSTITUTE OF ENGINEERING PULCHOWK CAMPUS

DEPARTMENT OF CIVIL ENGINEERING

SURVEY INSTRUCTION COMMITTEE Triangulation

Triangle ABC										
		Value			Со	rrected Aı	ngle			Length (After Avg AB
Angle	D	M	S	Correction	D	M	S	Side	Length	used)
A	87	31	42	3"	87	31	45	BC	77.794	77.808
В	39	5	52	3"	39	5	55	AC	49.107	49.116
С	53	22	17	3"	53	22	20	AB	62.49	62.501
Sum	179	59	51					_		
Error	0	0	9							

Triangle ABD										
		Value			Со	rrected Aı	ıgle			Length (After Avg AB
Angle	D	M	S	Correction	D	M	S	Side	Length	used)
A	87	27	27	2"	87	27	29	BD	74.201	74.188
В	35	13	40	2"	35	13	42	AD	42.844	42.844
D	57	18	47	2"	57	18	49	AB	62.512	62.501
Sum	179	59	54							
Error	0	0	6							

Triangle BCE									
		Value	L			rrected Aı	ngle		Length (After Avg
Angle	D	M	S	Correction	D	M	S	Side	AB used)
В	50	20	46	4"	50	20	50	CE	61.665
С	53	22	5	4"	53	22	9	BE	64.273
Е	76	16	57	4"	76	17	1	BC	77.808
Sum	179	59	48		_			_	
Error	0	0	12						

				Triang	le FEC				
Value				Corrected Angle				Length (After Avg	
Angle	D	M	S	Correction	D	M	S	Side	AB used)
F	68	31	56	3"	68	31	59	EC	61.665
Е	45	16	45	3"	45	16	48	FC	47.082
С	66	11	11	3"	66	11	14	FE	60.621
Sum	179	59	51						
Error	0	0	9						

Triangle FEG									
	Value				Corrected Angle				Length (After Avg AB used)
Angle	D	M	S	Correction	D	M	S	Side	AB used)
F	80	9	45	5"	80	9	50	EG	62.445
Е	26	47	37	5"	26	47	42	GF	28.57
G	73	2	23	5"	73	2	28	FE	60.621
Sum	179	59	45					_	•

Error	0	0	15