EXAMPLE IV.

Apparent time by Watch 11h. 42m., true Altitude 62° 04′ North, Lat. by account 32° South, corrected Declination 4° 19′ 21″ S. Required Latitude by Meridian Altitude.

	H.	M.
	12	00
	11	42
Hour Angle...		18′

True Alt.....	62°	04′	00″	N.
1st Corr....4.8′=		4	48	
2nd " ..14.5		14	30	
Mer. Alt.....	62	23	18	
	90	00	00	
Zenith dist.....	27	36	42	S.
Corr. decl.....	4	19	21	S.
Latitude.....	31	56	03	S.

EXAMPLE V.

Hour angle 17, True altitude of Ursa Majoris 44° 41′ 15″, Zenith south of the Star, Latitude by account 12° 15′ N., corrected declination 57° 34′ 45″ North. Required the Latitude

True Altitude.....	44°	41′	15″	
1st Corr.....1.9 =7.2=		7	12	
2nd " 9.1				
	44	48	27	
	90	00	00	
	45	11	33	S.
Declination.....	57	34	45	N.
Latitude.....	12°	23′	12″	N.

NOTE.—The Latitude being North and the Zenith distance South, the difference between the first and second corrections must be added to the Star's true altitude.