

January 15th 1824 the meridian alt of the $\star$ aldebaran
was obs to be $65^{\circ} 16' S$ required the latitude in

* obs alt $65^{\circ} 16' S$

Dip and refraction $4'$

* true alt $65^{\circ} 12'$

Subtract from $90^{\circ} 00'$

* Zenith Dist $24^{\circ} 48' N$

* Declination $16^{\circ} 29' N$

Lat in $40^{\circ} 57' N$

November 15th 1824 the meridian alt of the $\star$ Sirius
was obs to be $38^{\circ} 37' S$ What is the latitude in

* obs alt $38^{\circ} 37' S$

Dip and refraction $3'$

* true alt $38^{\circ} 32'$

Sub from $90^{\circ} 00'$

* Zenith Dist $51^{\circ} 28' N$

* Declination $16^{\circ} 29' S$

Lat in $34^{\circ} 59' N$