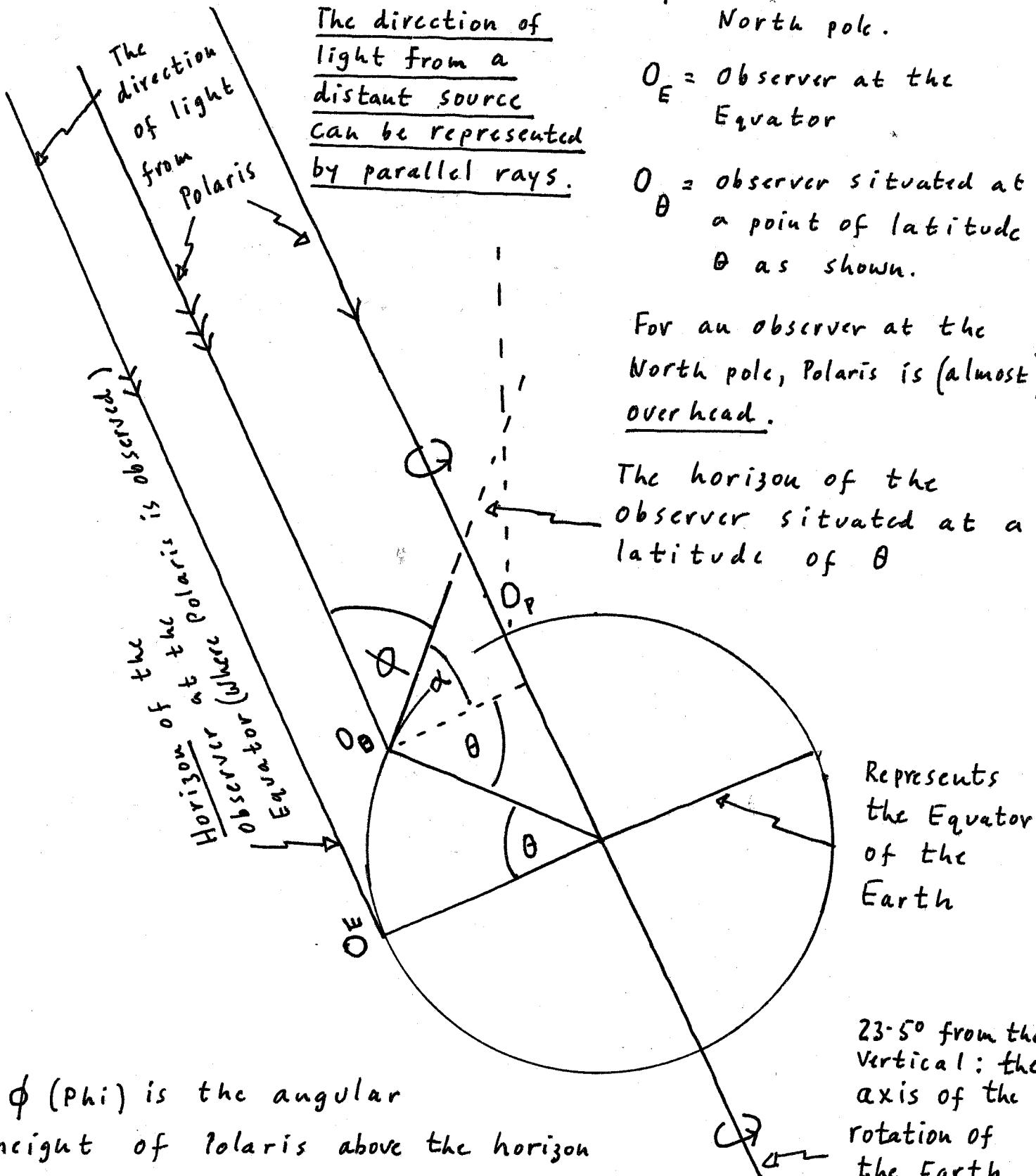


Latitude and Polaris



Now, $\theta + \alpha = 90^\circ$

And $\phi + \alpha = 90^\circ$

$\underline{\underline{\theta = \phi}}$

That is, the angular height of the Pole Star above the observer's horizon is equal to the latitude of the observer.