

## How To... Build an equatorial platform with circular segments for a Dobsonian mounted telescope

Geometry and calculations supporting the design



Click to play

## Start with a horizontal line representing the bottom of your telescope on its mount

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Create a point at one end - we'll call this our origin

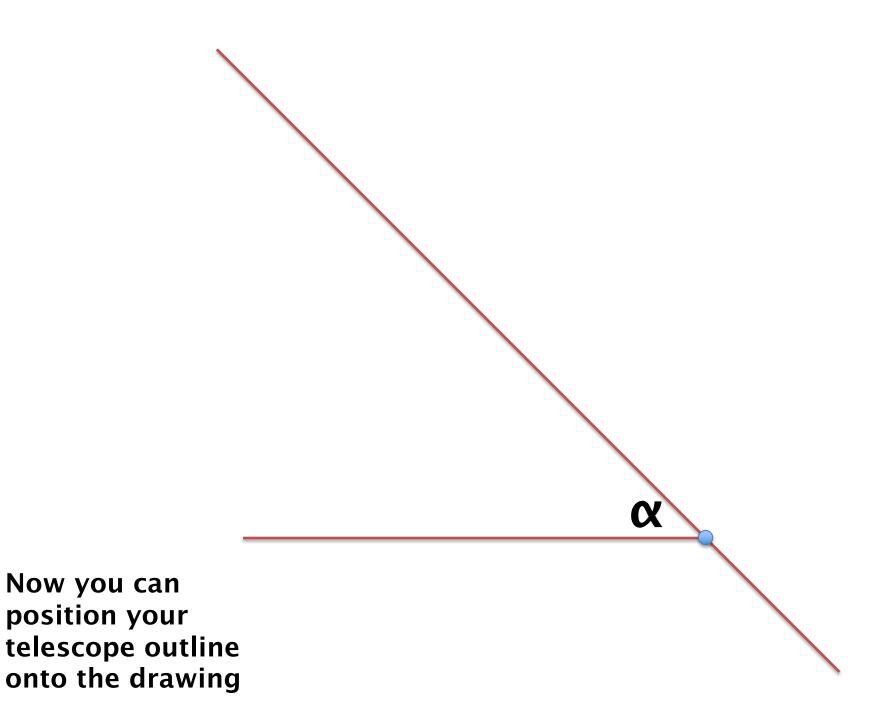
Draw a line passing up through the origin

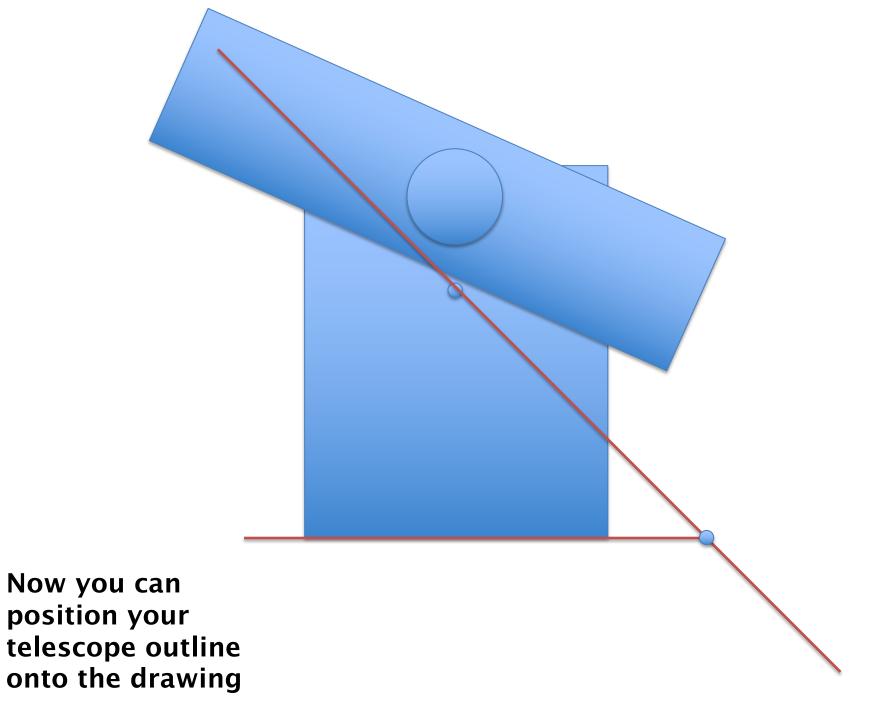
This angle is important – it must be the same as your latitude

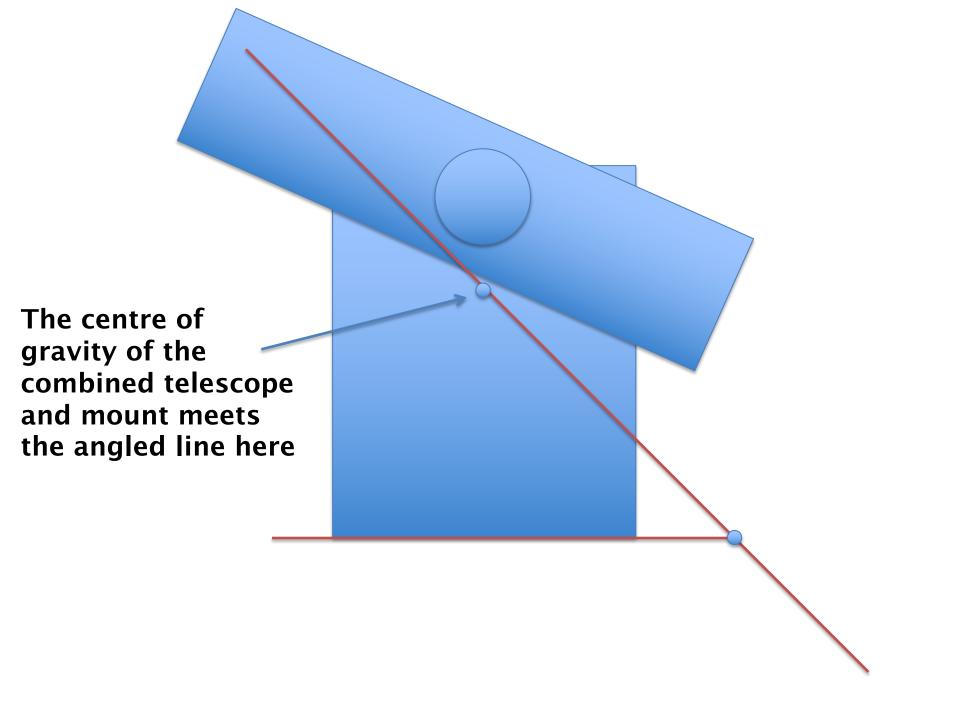


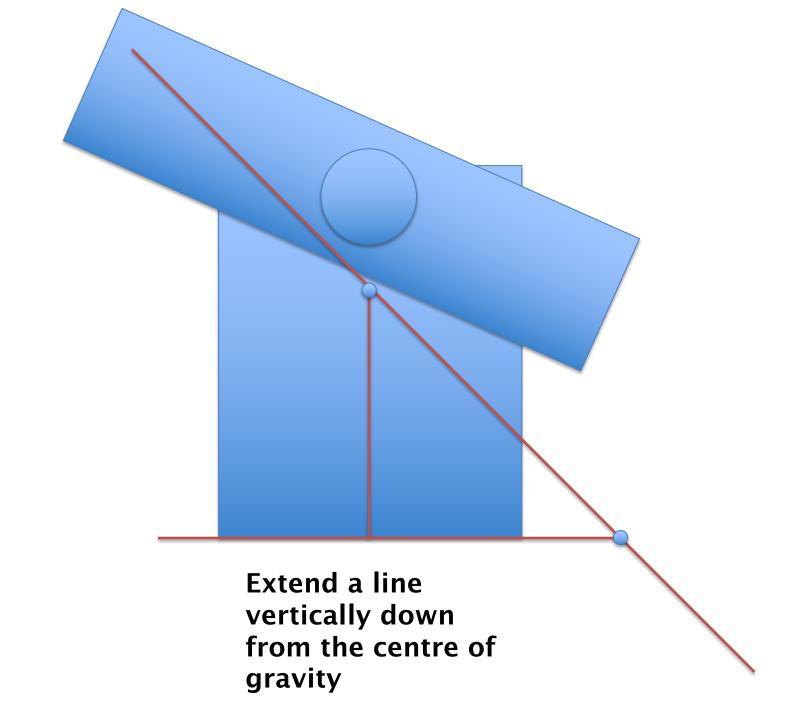
This line is the Polar Axis and will point towards the celestial Pole when you set up the platform.

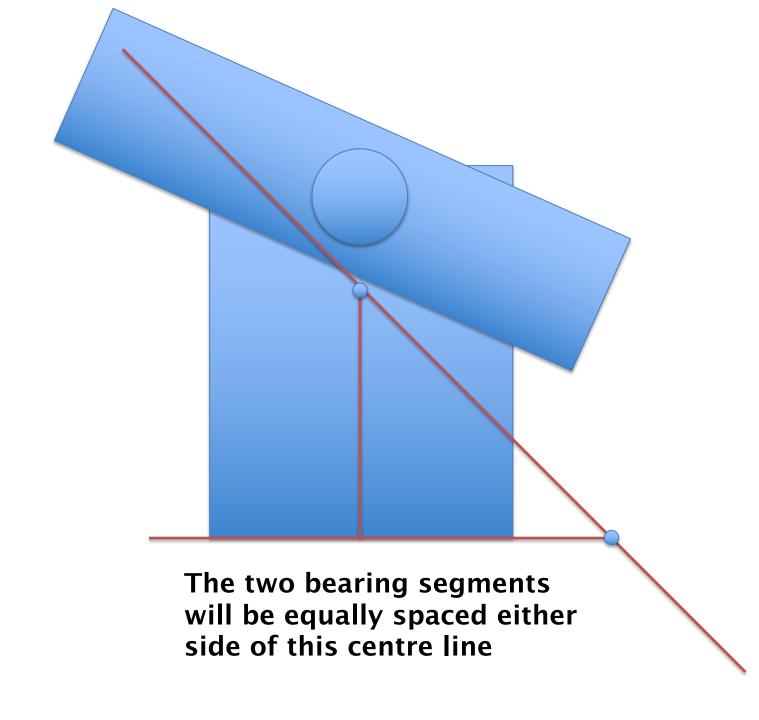
X

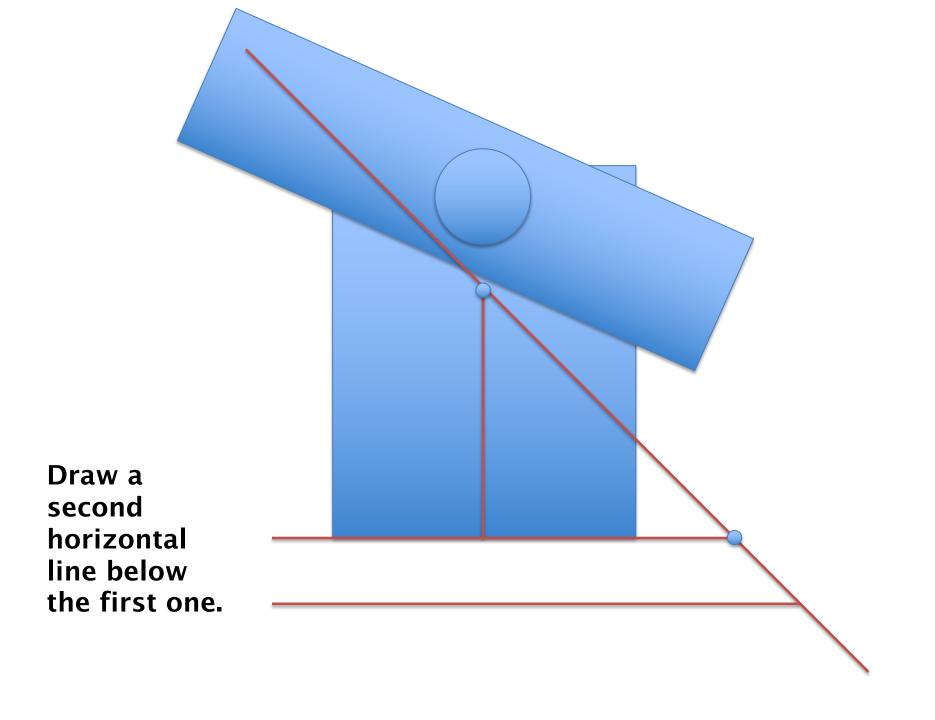


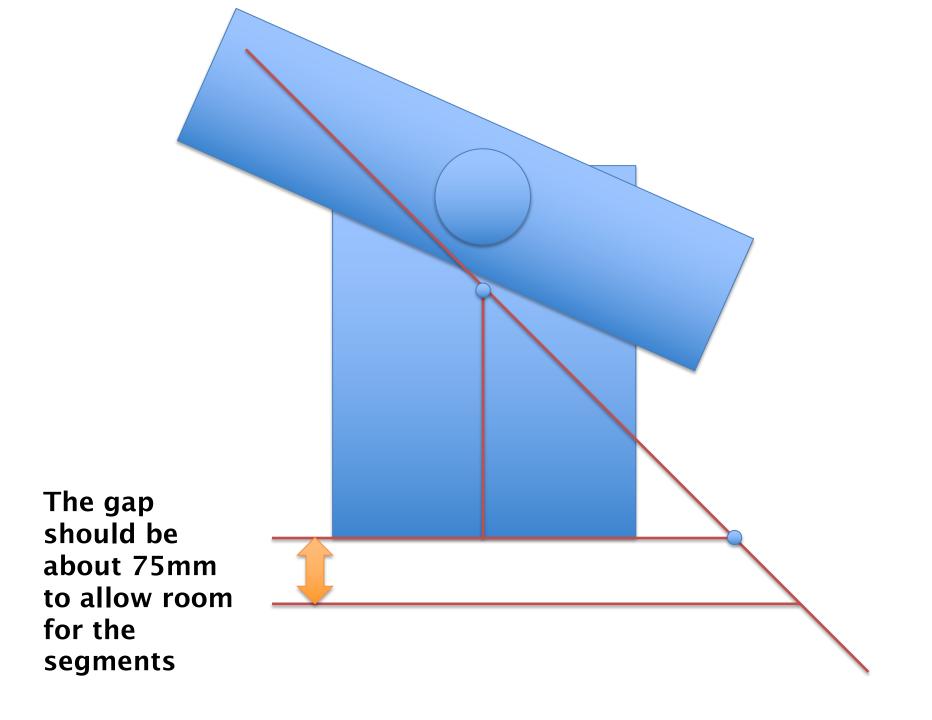


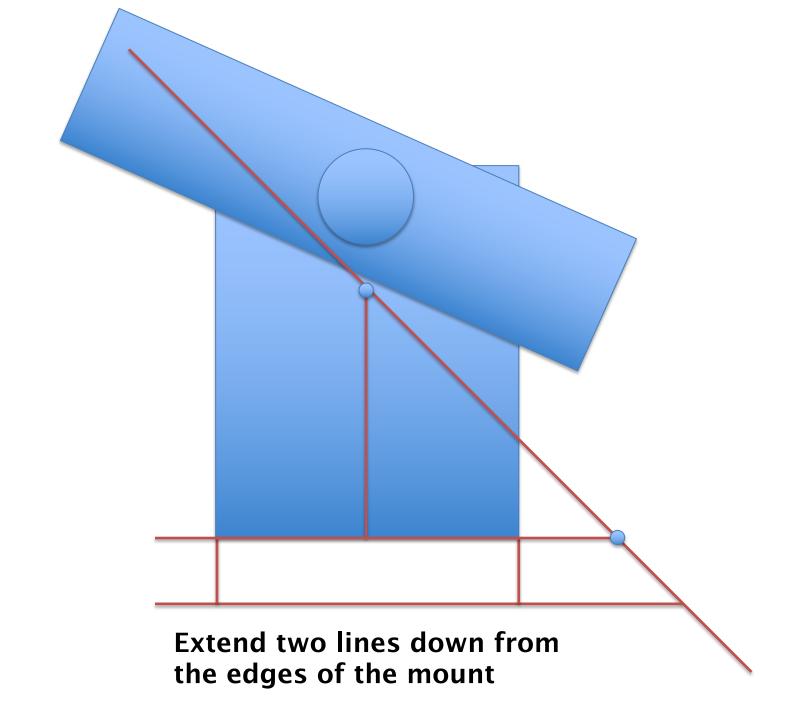


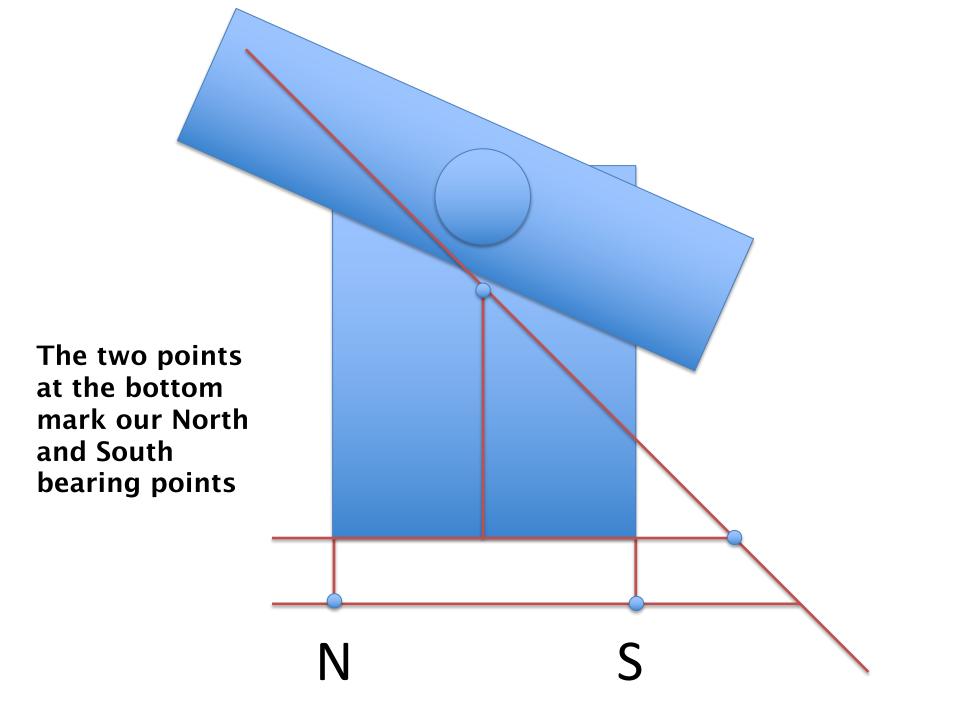


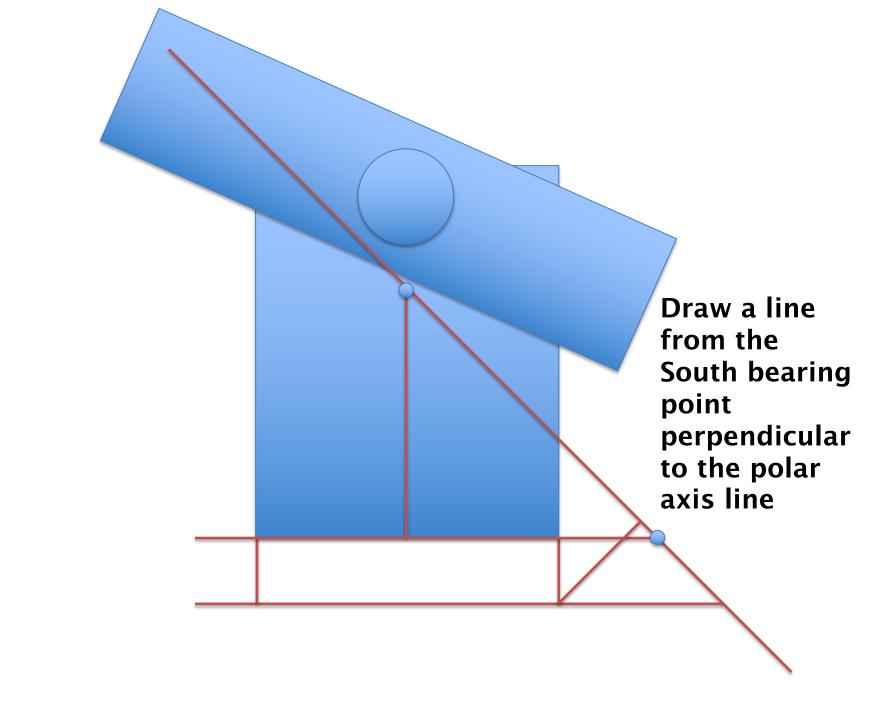


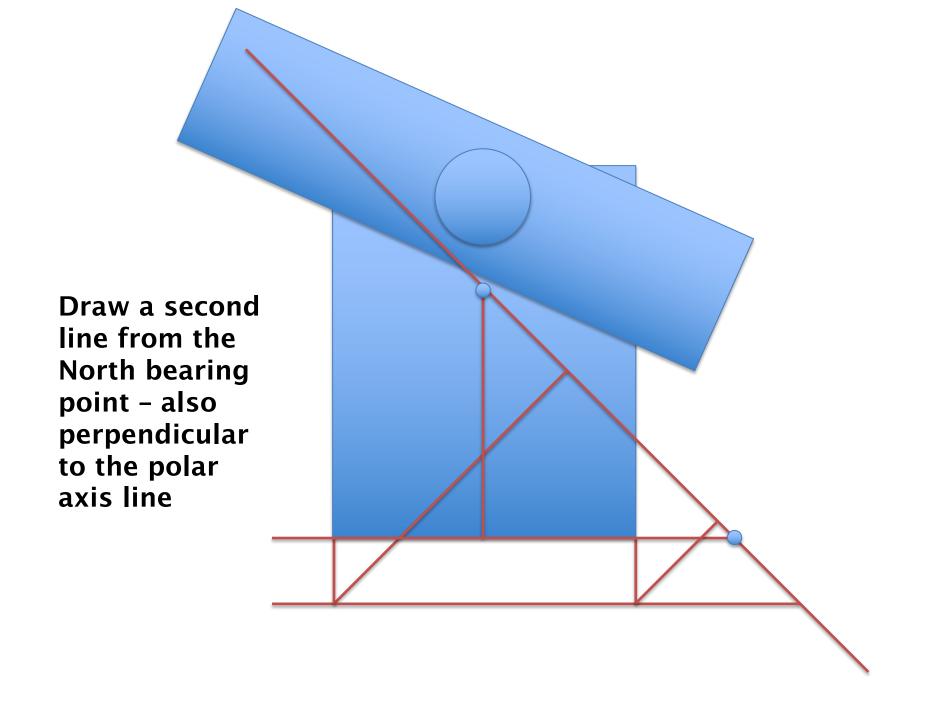


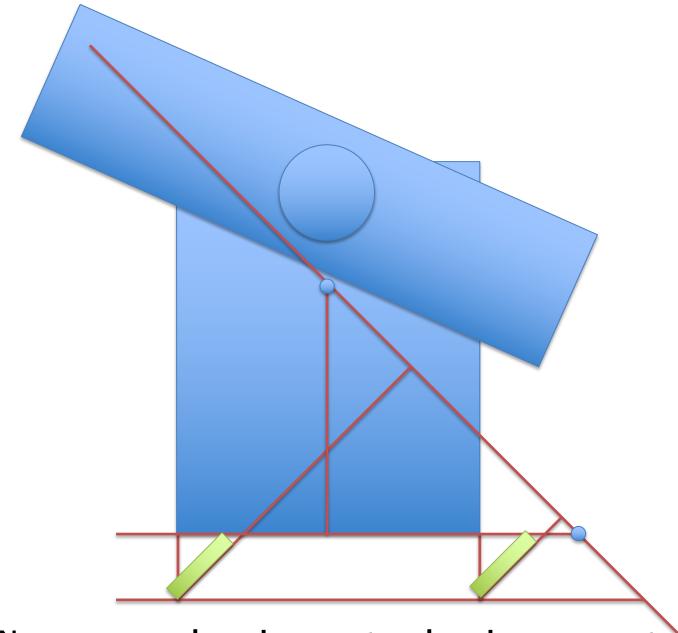




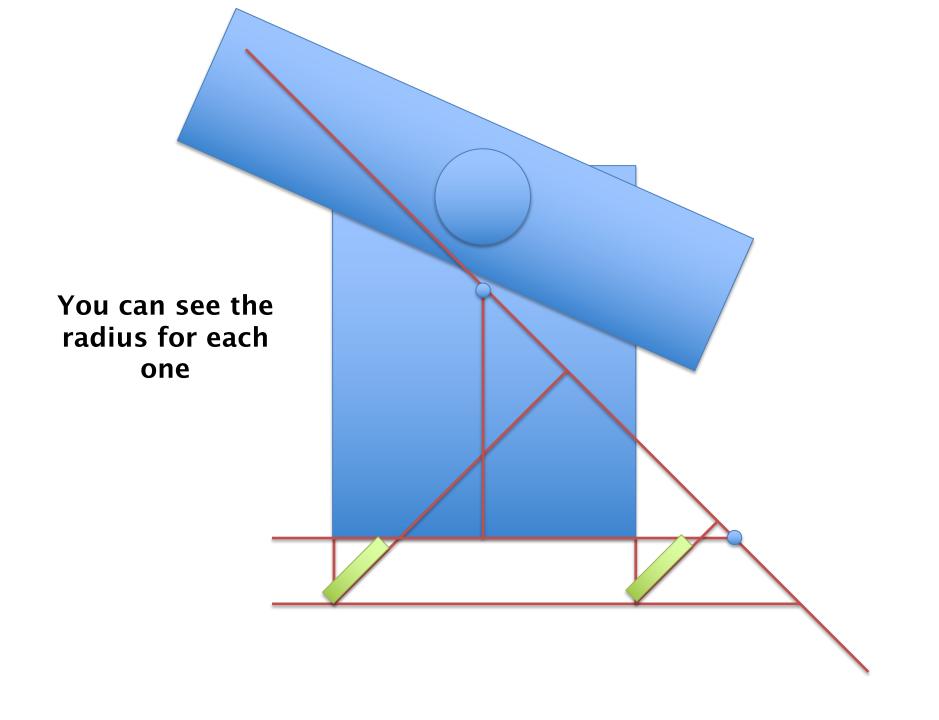


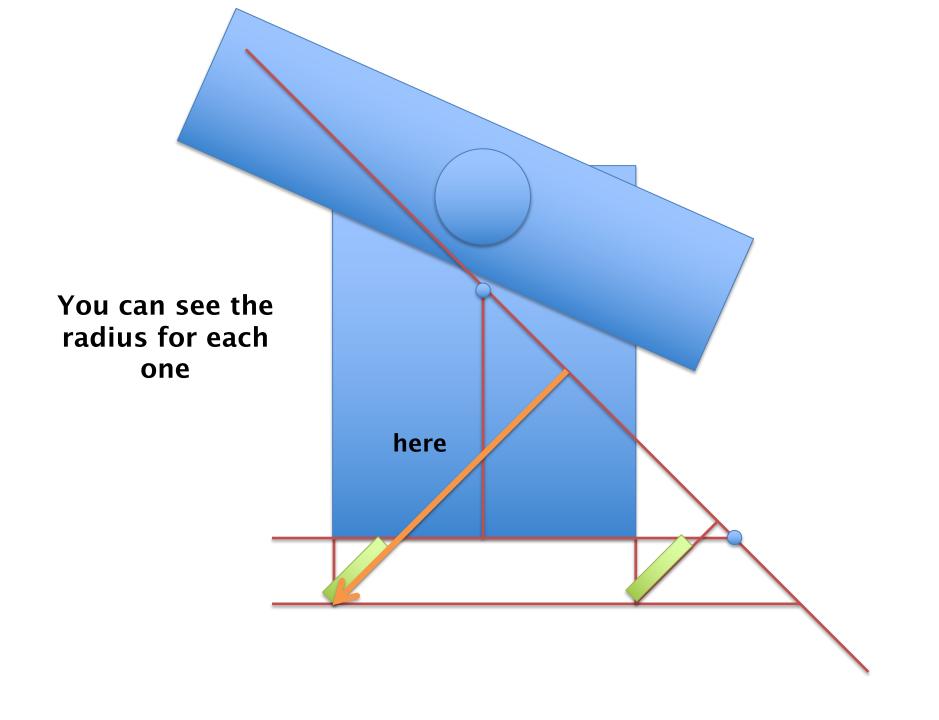


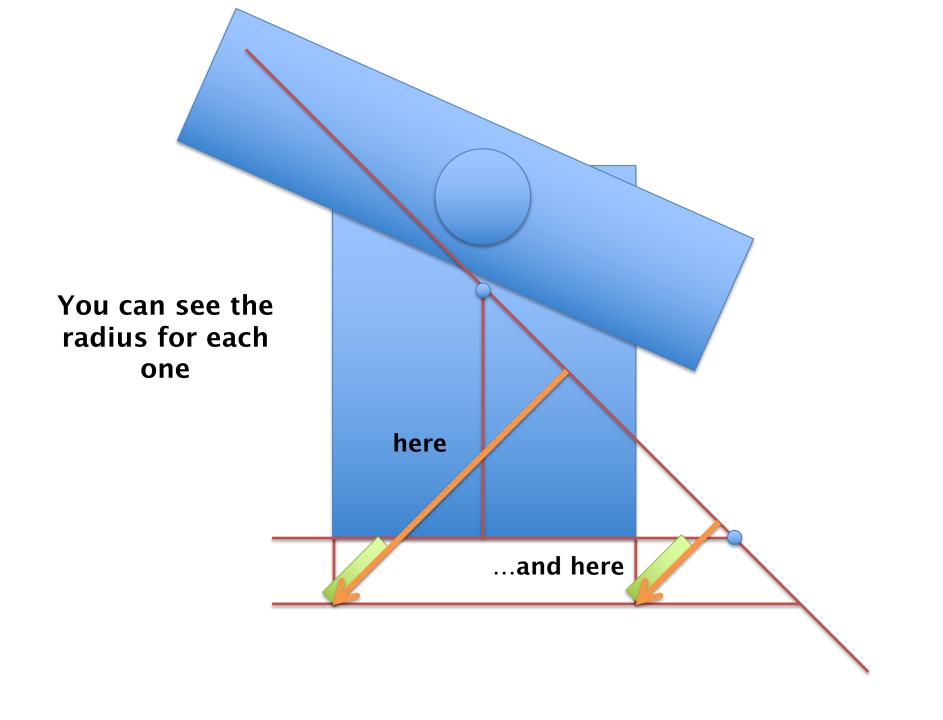


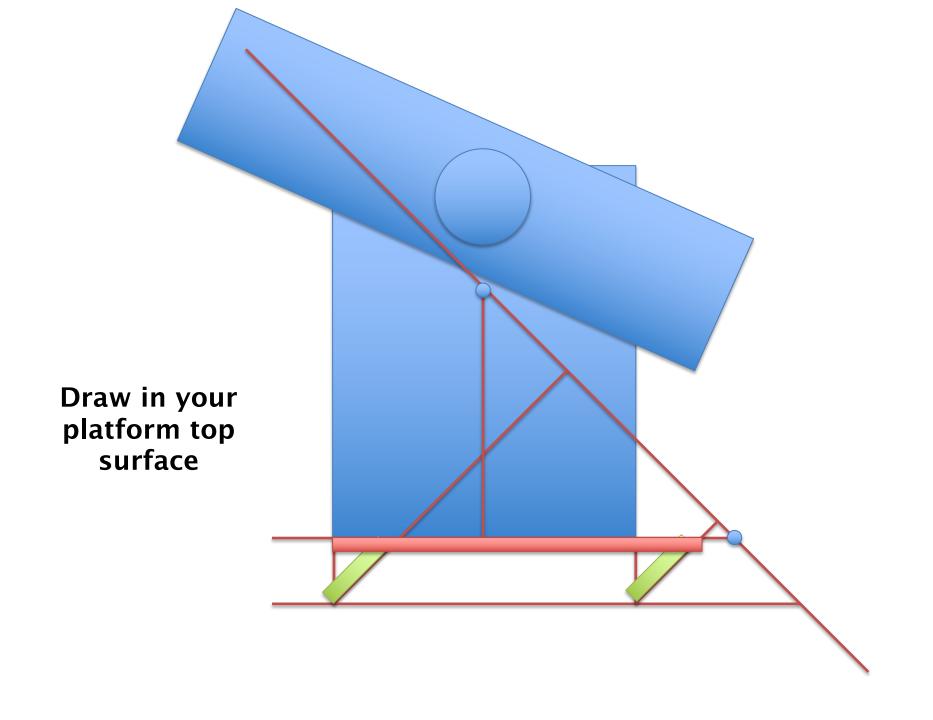


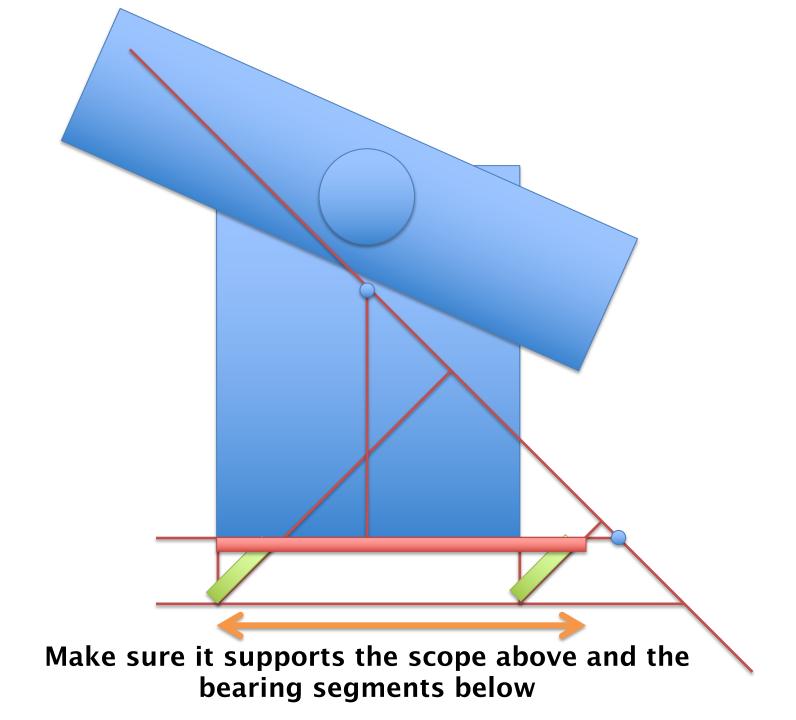
Now you can draw in your two bearing segments

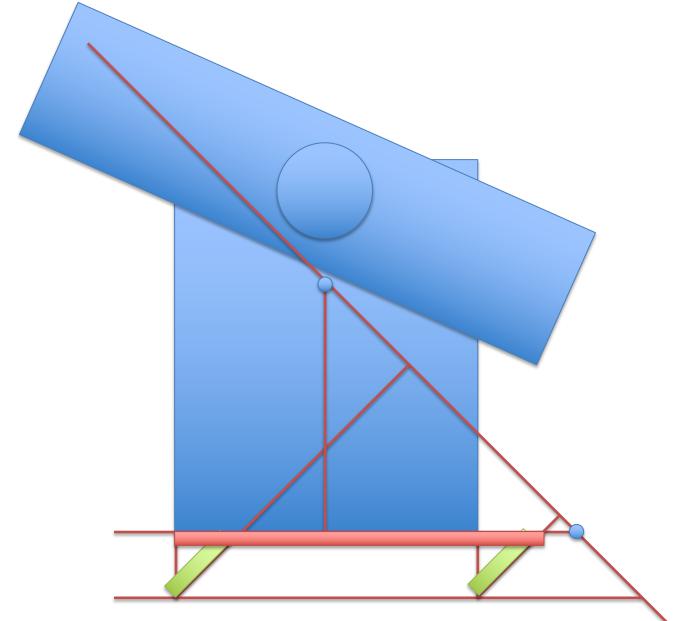




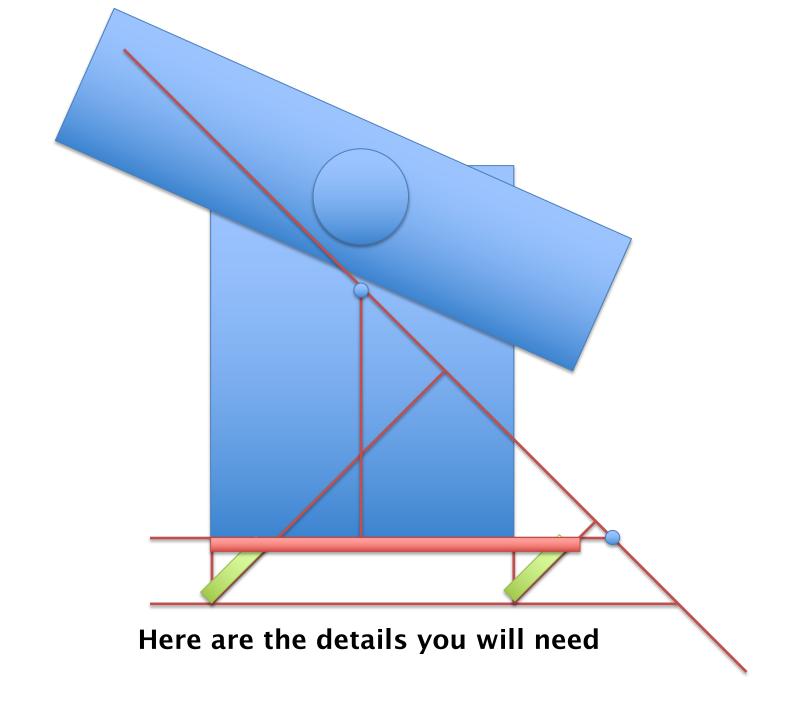


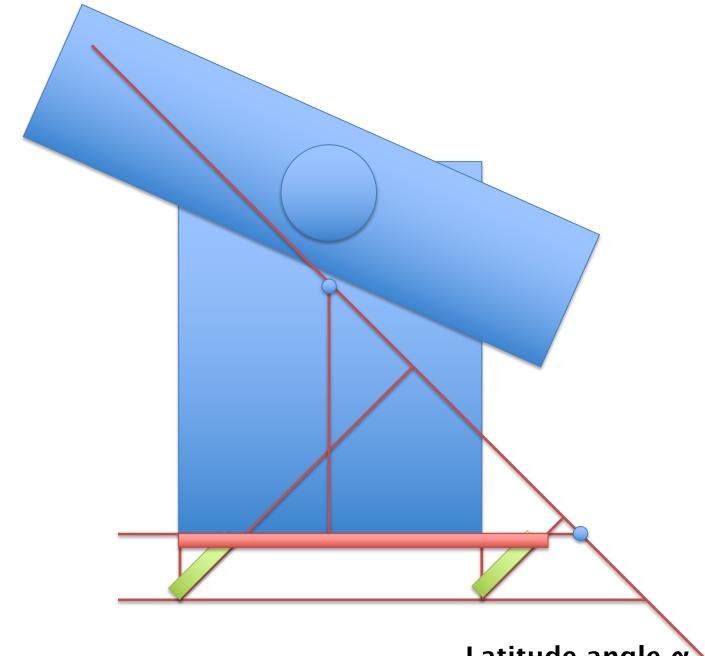






If you know a few key measurements you can work out all the sizes or you can key them into our spread sheet calculator





Latitude angle α

