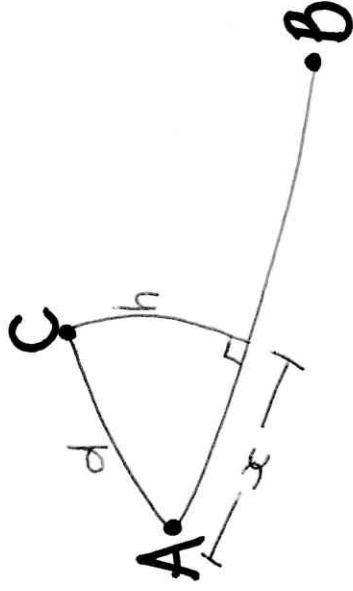
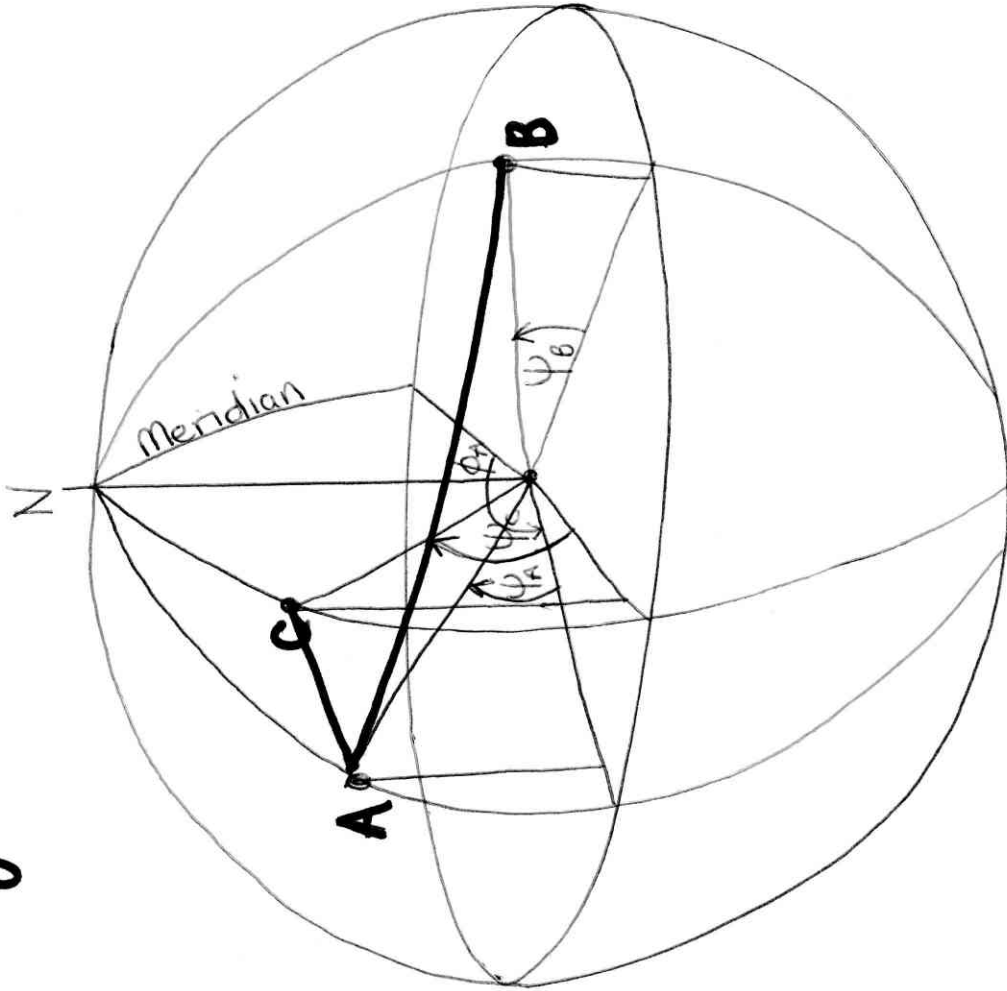


Along Track

Spherical Law of Cosines

1) Calc distance d . Formula distance between 2 points

2) Calc distance h . Cross track formula



$$\cos(d) = \cos(x) \cos(h) + \sin(x) \sin(h) \cdot \cos(90^\circ) = 0$$

$$\cos(x) = \frac{\cos(d)}{\cos(h)}$$

Along track $x = \cos^{-1} \left(\frac{\cos(d)}{\cos(h)} \right) \times \text{radius of sphere}$