## Formula for Celestial

$$A = \frac{Tan Lat}{Tan LHA}$$
  $A = \frac{Named Opposite to Latitude}{except if LHA between 90 - 270}$ 

$$C = A + / - B$$
  $C = Named Greater of the Two Same Names + / Opposite Names -$ 

## Cos.CZD =(cos. LHA x cos. Lat x cos. Dec) +/- (sin. Lat x sin. Dec) (+ when Lat & Dec same name. – when Lat & Dec opposite)

When LHA is greater than 180 take from 360 and use that instead.

## Three rules for Determining Latitude:

• If latitude and Declination are in the same hemisphere but latitude is greater than Declination:

 If latitude and declination are in the same hemisphere but declination is greater than latitude:

If they are in opposite hemispheres: