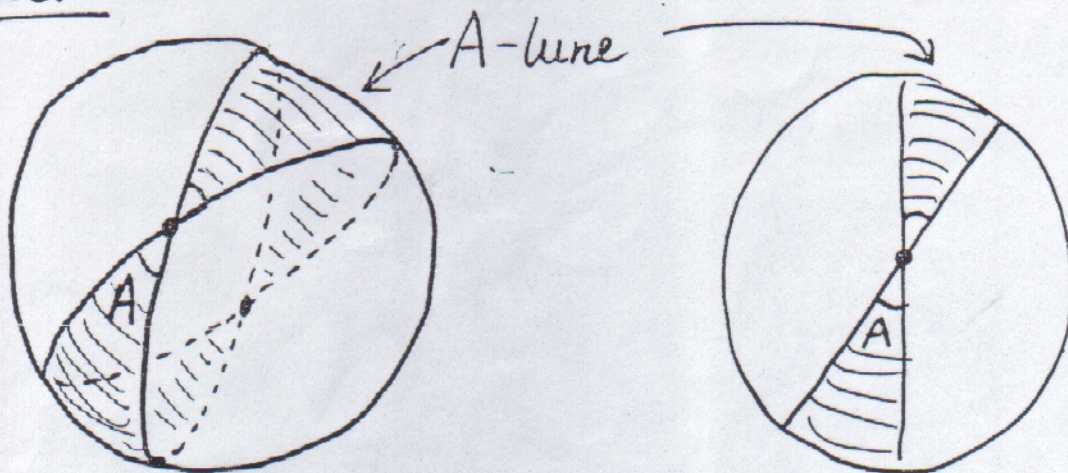
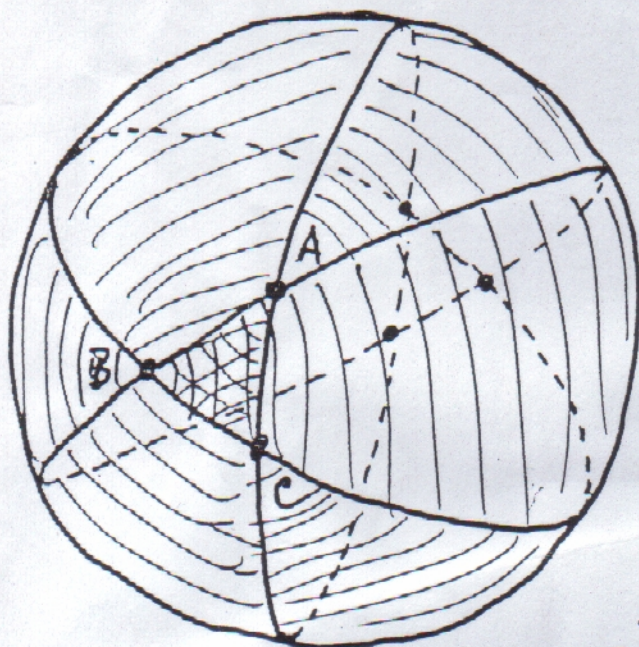


THEOREM. $A+B+C = 180\left(1+4\frac{T}{S}\right)$

PROOF



$$\frac{\text{Area of A-lune}}{S} = \frac{2A}{360} = \frac{A}{180}$$



$$A\text{-lune} + B\text{-lune} + C\text{-lune} = S + 4T$$

Divide by S & substitute above:

$$\frac{A}{180} + \frac{B}{180} + \frac{C}{180} = 1 + 4\frac{T}{S}$$

$$\therefore A+B+C = 180\left(1+4\frac{T}{S}\right)$$