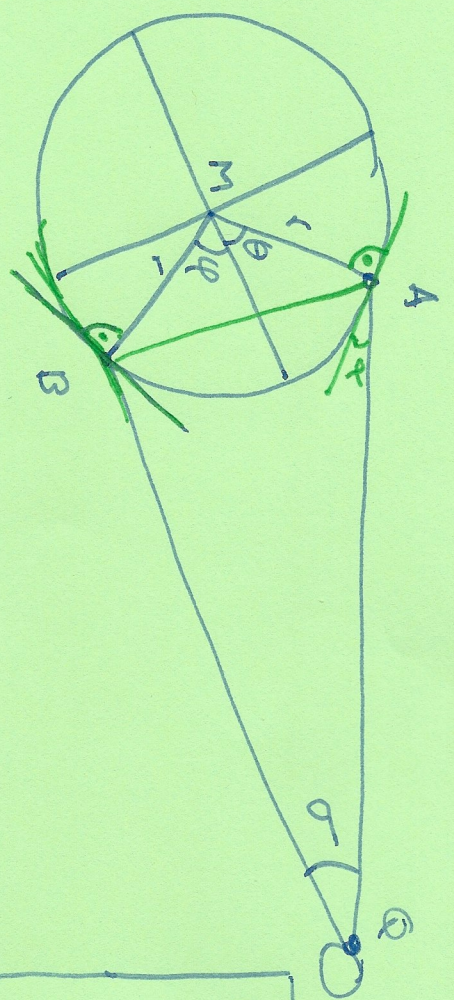
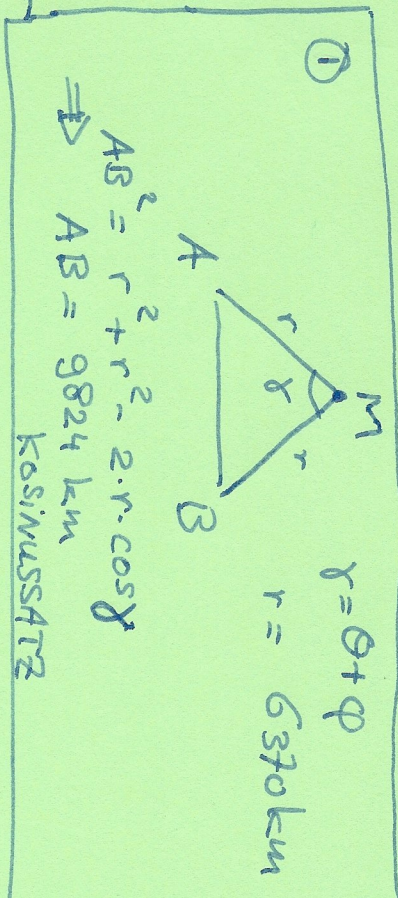


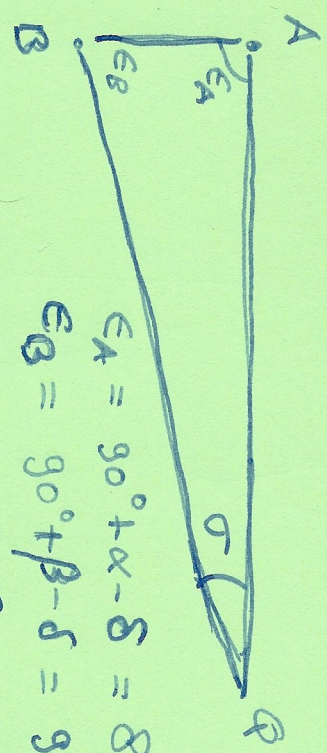
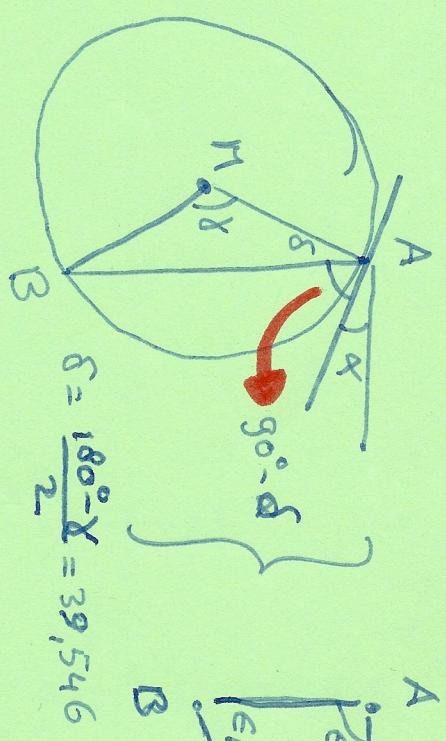
G.111



$\alpha = 37,782^\circ$      $\beta = 39,826^\circ$   
 $\theta = 37,126^\circ$      $\varphi = 63,783^\circ$

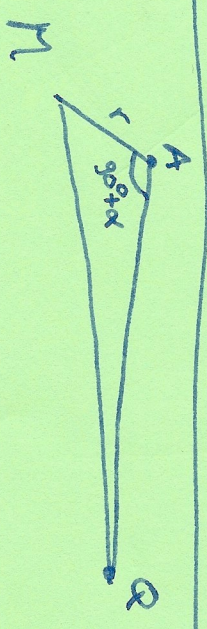


②



$\frac{AQ}{\sin \epsilon_B} = \frac{AB}{\sin \sigma} \Rightarrow AQ = AB \cdot \frac{\sin \epsilon_B}{\sin \sigma} = 379,333 \text{ km}$

③



$MQ^2 = r^2 + AQ^2 - 2 \cdot r \cdot AQ \cdot \cos(90^\circ + \alpha)$   
 $= 1,439 \cdot 10^9 + 2,96 \cdot 10^9$   
 $MQ = 383223 \text{ km}$