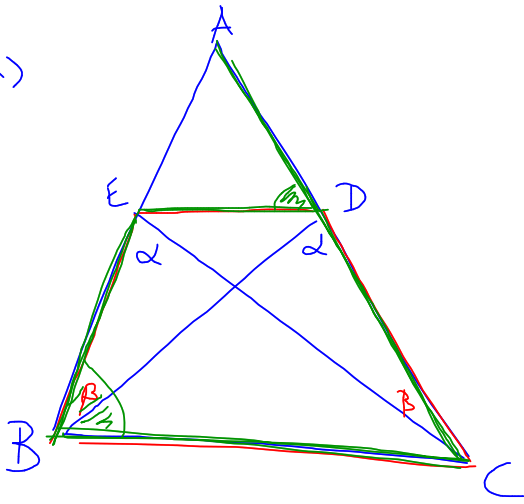
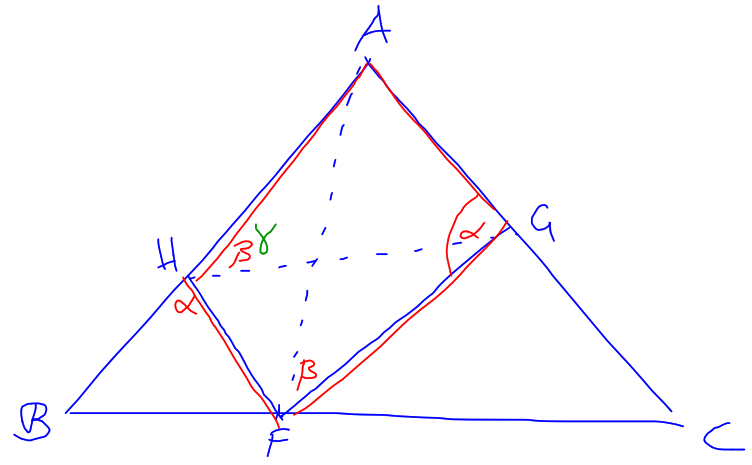


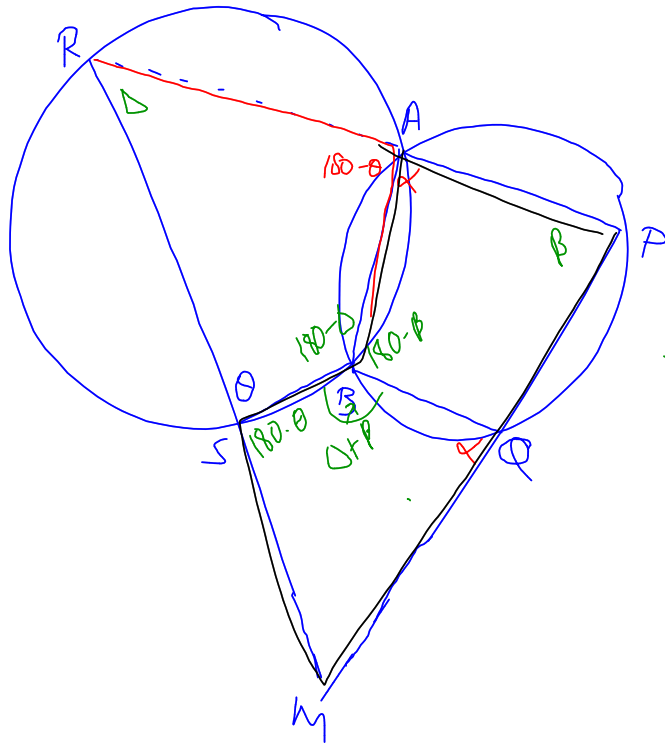
3a)



(b)



7b)(i)



$$540 = 180 + \delta + \alpha + \beta + 180 - \theta + \angle SMQ$$

$$180 = \angle SMQ + \delta + \alpha + \beta - \theta$$

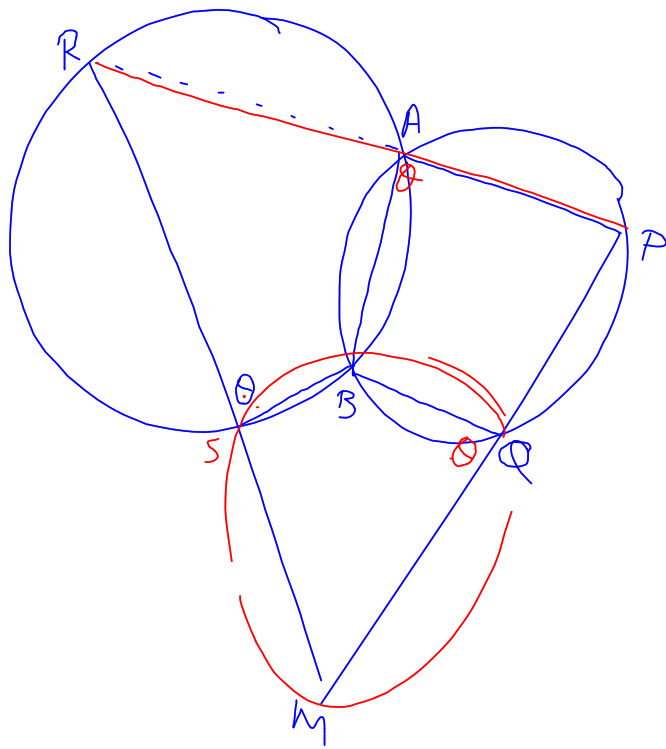
$$\angle SMQ = 180 + \theta - \delta - \alpha - \beta$$

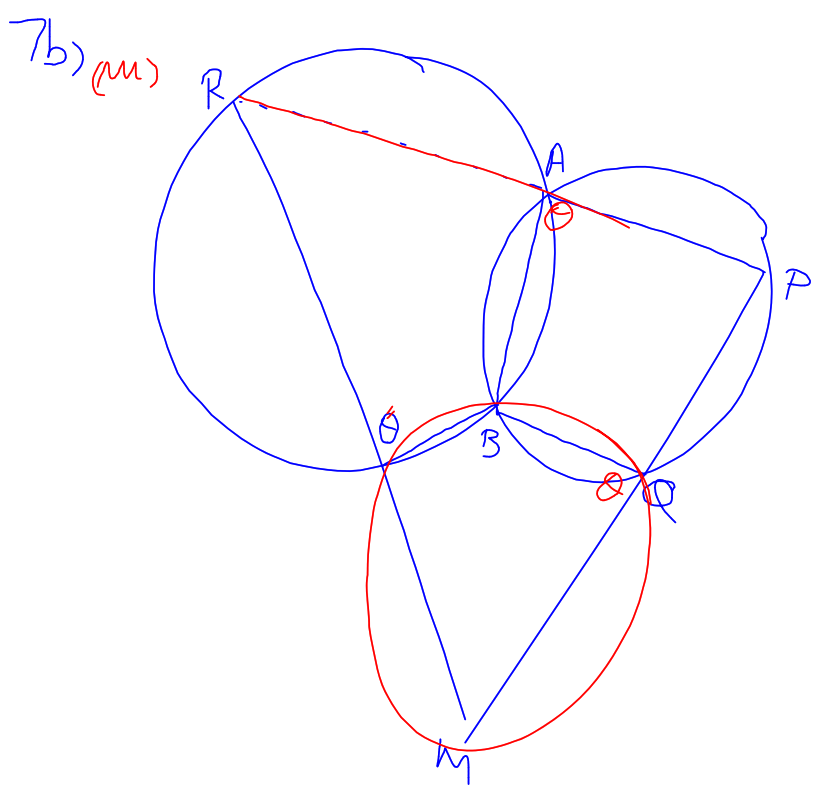
$$\angle SMQ + \beta + \delta$$

$$= 180 + \theta - \alpha$$

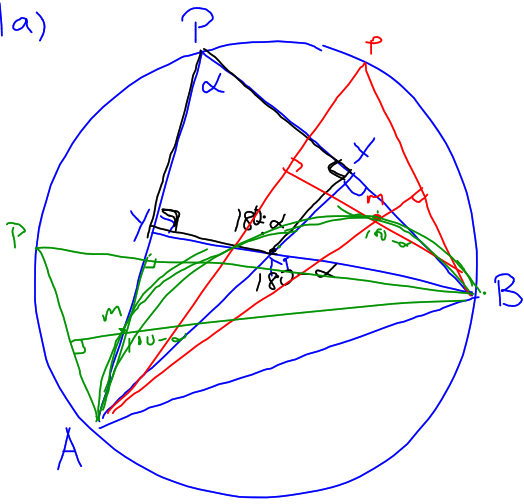
The only way R, A, P is a st. line is if $\theta = \alpha$

7b) (u)

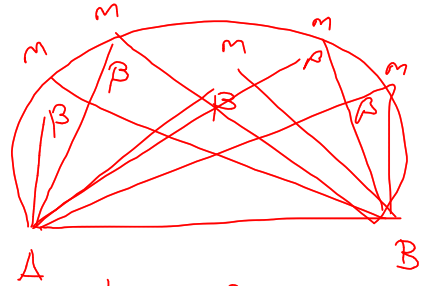
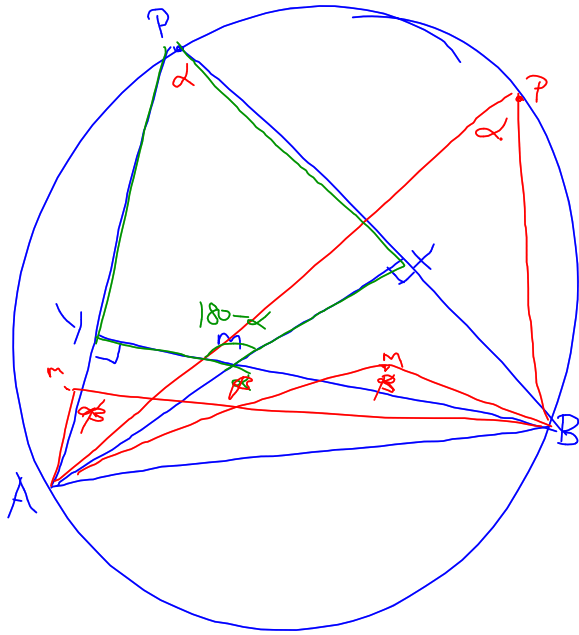




11a)



//



locus of m
arc of circle
cut off by chord AB