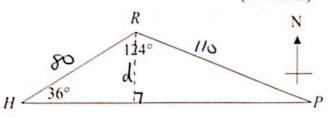
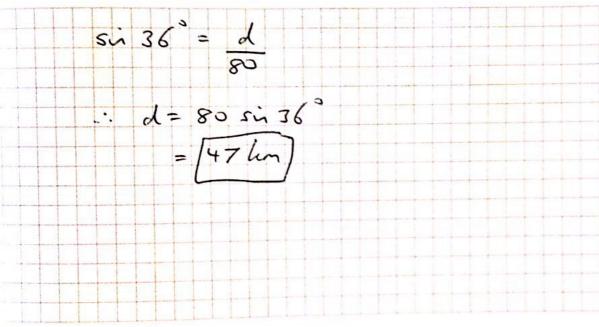
(30 marks)

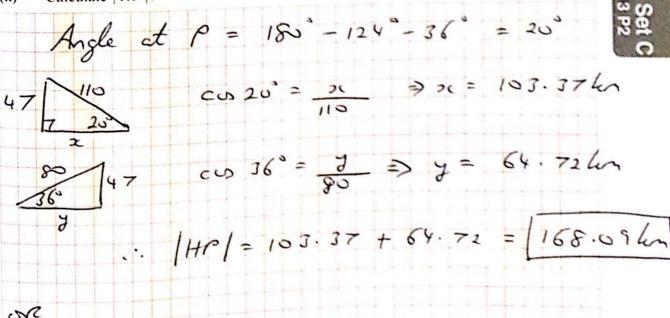
A port P is directly east of a port H. To sail from H to P, a ship first sails 80 km, in the direction shown in the diagram, to the point R before turning through an angle of 124° and sailing 110 km directly to P.



Find the distance from R to HP. (i)

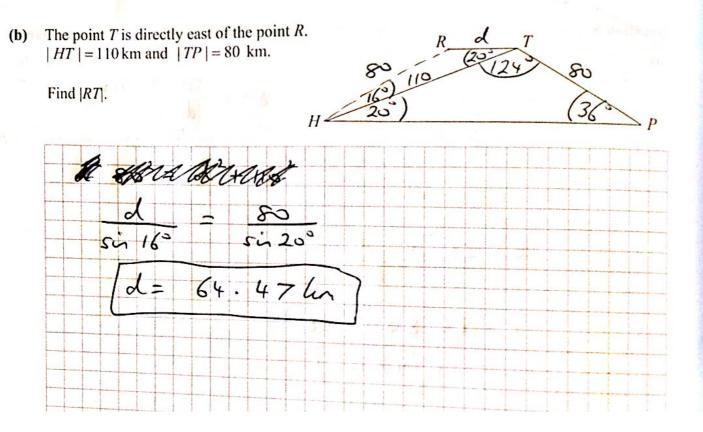


(ii) Calculate | HP |.



1140 = 168.35 hr

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