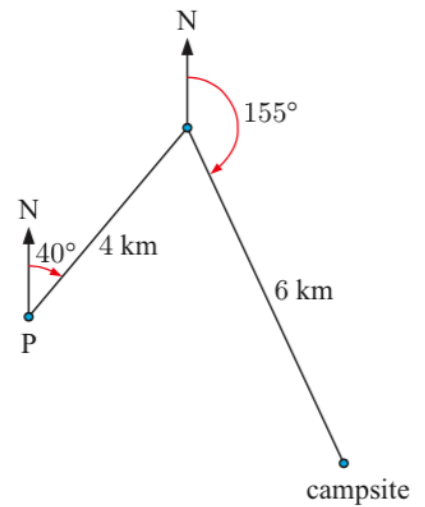


REVISION QUESTIONS**BEARINGS**

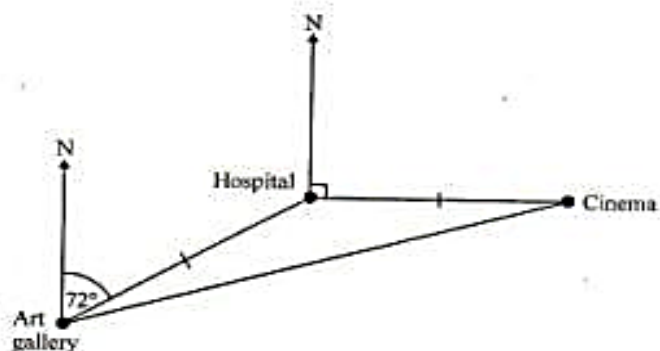
1. Hikers Ritva and Esko leave point P at the same time. Ritva walks 4 km on a bearing of 040° , then a further 6 km on a bearing of 155° .

Esko hikes directly from P to the camp site.

- a How far does Esko hike?
- b In which direction does Esko hike?
- c Ritva hikes at 10 km h^{-1} and Esko hikes at 6 km h^{-1} .
 - i Who will arrive at the camp site first?
 - ii How long will this person need to wait before the other person arrives?
- d On what bearing should the hikers walk from the camp site to return to P?



2.

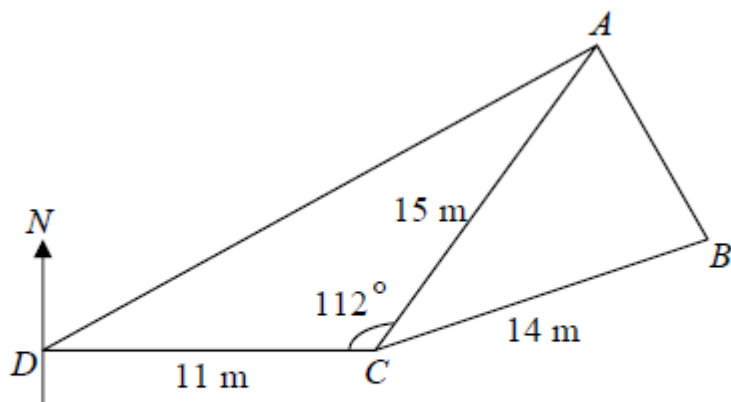


The diagram shows the position of each of three buildings in a town.
 The bearing of the Hospital from the Art gallery is 072° .
 The Cinema is due East of the Hospital.
 The distance from the Hospital to the Art gallery is equal to the distance from the Hospital to the Cinema.

Work out the bearing of the Cinema from the Art gallery.

(Total 3 marks)

3.



In the diagram above A , B , C and D are points on level ground. D is due west of C , $CD = 11\text{m}$, $BC = 14\text{m}$, $AC = 15\text{m}$ and angle $ACD = 112^\circ$. It is given that the bearing of C from A is 202° and the bearing of A from B is 318° .