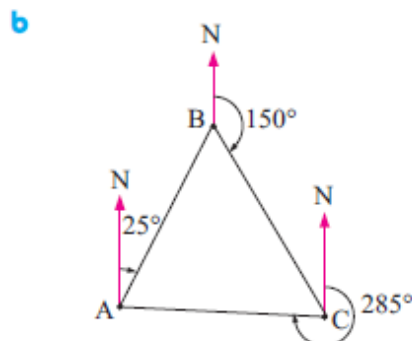
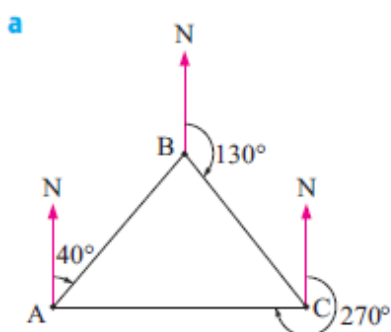


BEARINGS

GR 9

- Draw diagrams to represent bearings from O of:
 - 055°
 - 140°
 - 330°
 - 255°
- Find the bearing of Q from P if the bearing of P from Q is:
 - 124°
 - 068°
 - 244°
 - 321°
- A, B and C are checkpoints in an orienteering course. For each of the following, find the bearing of:
 - B from A
 - C from B
 - B from C
 - C from A
 - A from B
 - A from C.



- A hiker walks 900 m east and then 500 m south. Find the bearing of his finishing position from his starting point.
- Two runners meet at an intersection, then leave it at the same time. Runner P runs at 12 km h^{-1} due north, while runner Q runs at 14 km h^{-1} due east. Find the distance and bearing of runner Q from runner P after 30 minutes.
- A helicopter pilot flies in the direction 147° and lands when she is 12 km south of her starting point. How far did she fly?
- A ship sails for 180 km on the bearing 058° . How far is the ship north of its starting point?
- An aeroplane travels on the bearing 315° until it is 650 km west of its starting point. How far has it travelled on this bearing?
- A cyclist departs point R and rides on a straight road for 2.3 km in the direction 197° . She then changes direction and rides for 1.8 km in the direction 107° to point S.
 - Draw a fully labelled sketch of this situation.
 - Find the distance between R and S.
 - Find the bearing from R to S.
- A fishing trawler sails from a port in the direction 083° for 14 km. Another boat radios a message that they have found large schools of fish, so the trawler captain changes course and heads in the direction 173° for 20 km.
 - Draw a fully labelled sketch of this situation.
 - Find the distance of the trawler from the port.
 - Find the bearing of the trawler from the port.
 - Find the direction the trawler needs to travel in order to return to the port.

