

# Solutionbank M1

Heinemann Modular Maths for Edexcel AS and A-level

## 4 Forces

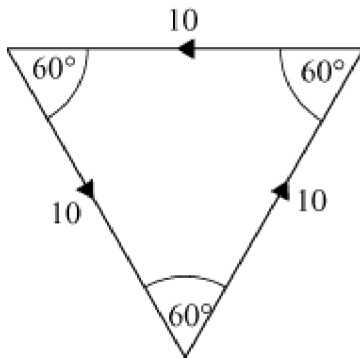
### Exercise E, Question 9

#### Question:

Horizontal forces each of magnitude 10 N act in the direction of the bearings  $040^\circ$ ,  $160^\circ$  and  $280^\circ$ . Are these forces in equilibrium?

#### Solution:

The forces are in equilibrium: the angle between each of the forces is  $120^\circ$  so the triangle of forces is as shown and gives no resultant force.



© Harcourt Education Ltd 2005