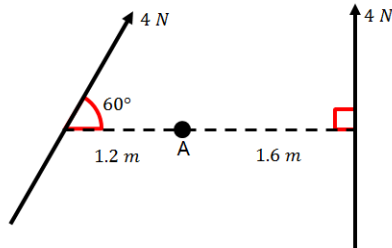


Section 2: Moments of forces at an angle

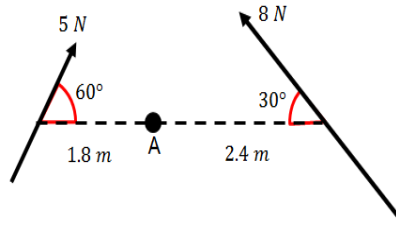
Exercise level 1

1. In each case find the sum of the moments about A of the forces shown.

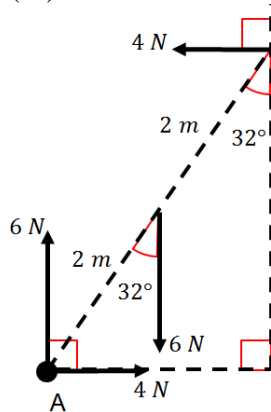
(i)



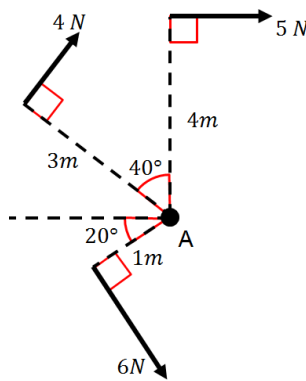
(ii)



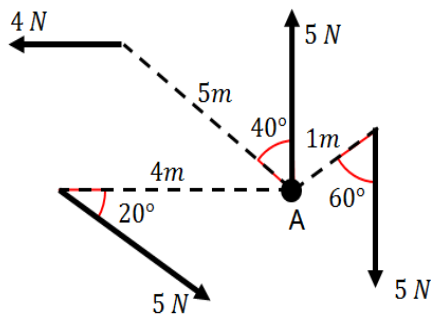
(iii)



(iv)



(v)



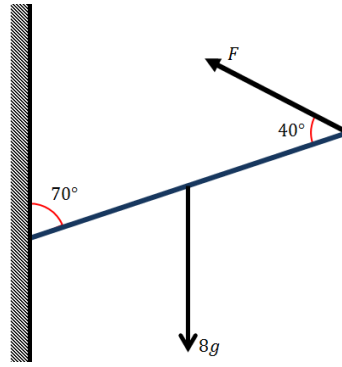
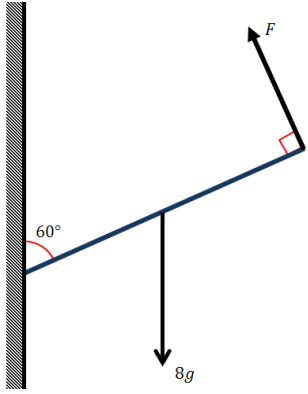
(vi)

2. Each of the following diagrams shows a uniform rod AB of mass 8 kg and length 4 m. The rod is freely hinged to a vertical wall at A. The rod rests in equilibrium at an angle to the horizontal. Find the magnitude of the force F in each case. Take  $g = 10 \text{ ms}^{-2}$ .

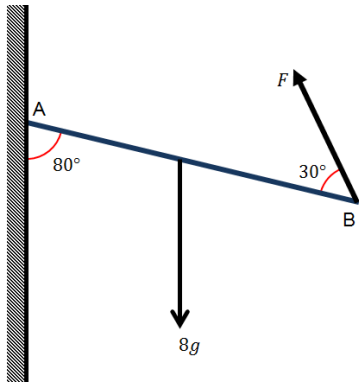
(i)

(ii)

# Edexcel A level Maths Moments 2 Exercise



(iii)



(iv)

