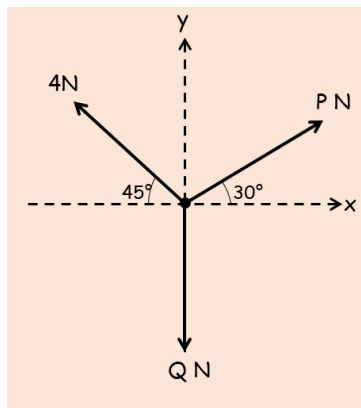


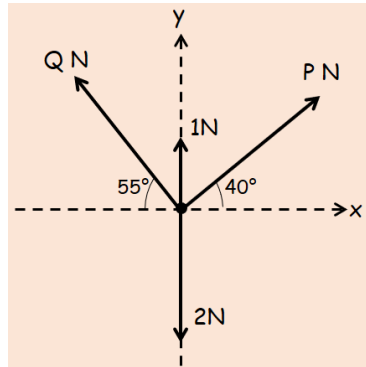
## 7A Static Diagrams

1. The particle in the diagram is in equilibrium. Calculate the magnitude of the forces P and Q.



2. The diagram shows a particle in equilibrium under a number of forces.

Calculate the magnitudes of the forces P and Q



3. The diagram shows a particle in equilibrium on an inclined plane under the effect of the forces shown.

Find the size of angle  $\theta$  and the value of force P.

