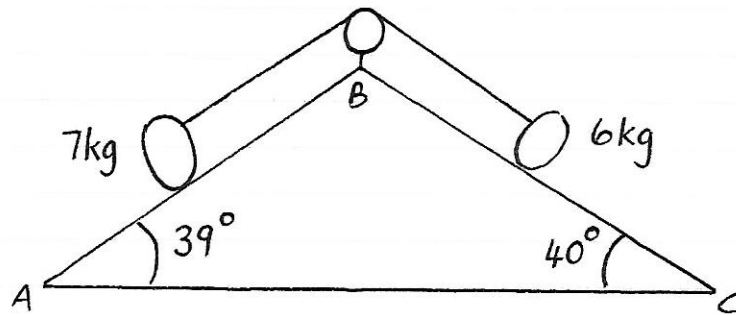


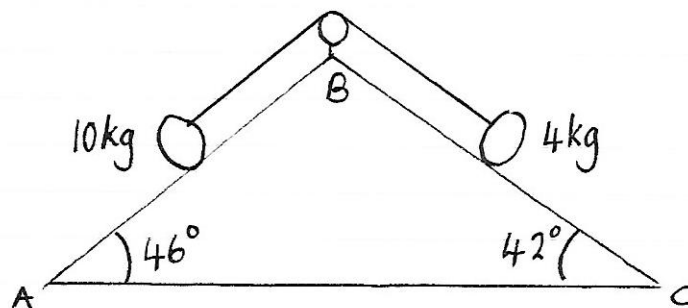
Double Inclined Plane : Friction Involved

1)



- The system is on the point of moving.
 - Slope AB is rough, μ is unknown.
 - Slope BC is smooth
- Calculate μ and indicate the direction of motion.

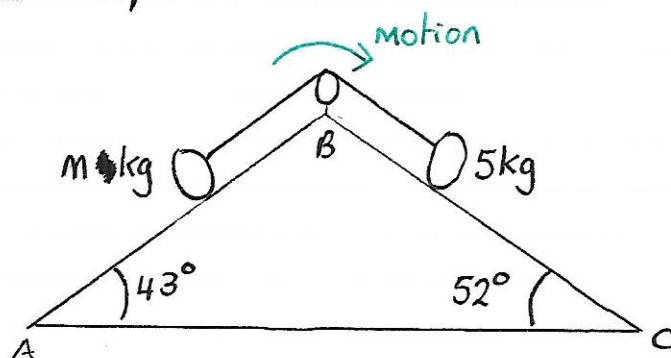
2)



- The system is on the verge of moving
- slope AB is rough
- slope BC is rough
- The coefficient of friction is the same for BOTH slopes

Calculate μ .

3)



- The system was released from rest and the motion direction is as shown
 - slope AB and BC are both equally rough with $\mu = 0.2$
 - The acceleration of the system is 0.5 m/s^2 .
- Calculate the value of mass m .