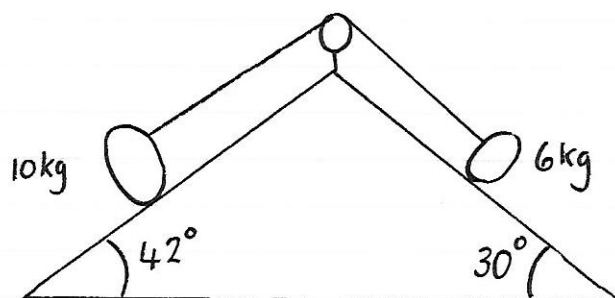


Double Inclined Plane : Acceleration

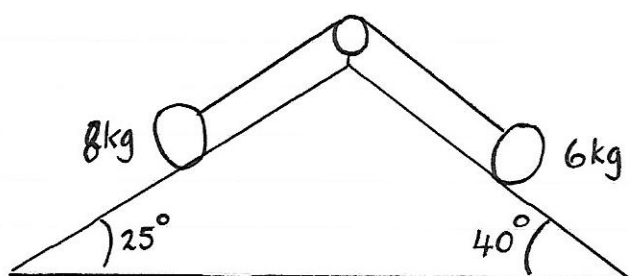
1)



slopes are smooth

The masses are held at rest and then released. Calculate the acceleration and indicate the direction of motion.

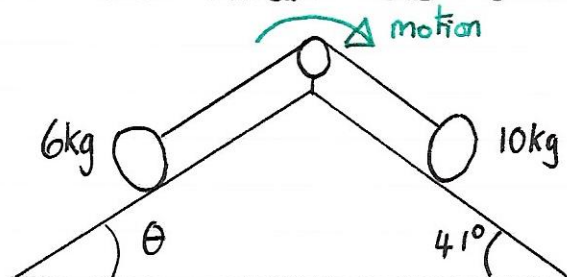
2)



slopes are smooth

The masses are held at rest and released. Calculate the acceleration and indicate the direction of motion.

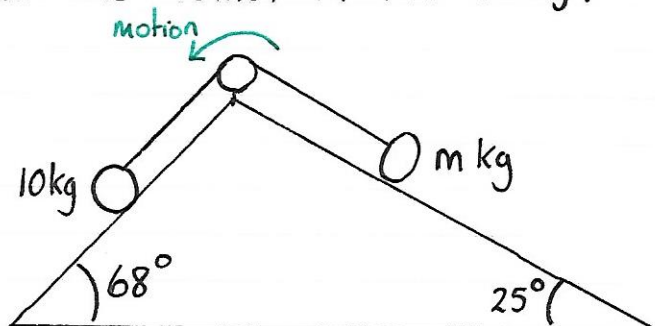
3)



slopes are smooth

The masses are held at rest and released. There is an acceleration of 1 m/s^2 in the direction as indicated in the diagram. Calculate θ . Calculate the tension in the string.

4)



slopes are smooth

The masses are held at rest and released. There is an acceleration of 1.5 m/s^2 in the direction as indicated in the diagram. Calculate m and the tension in the string.