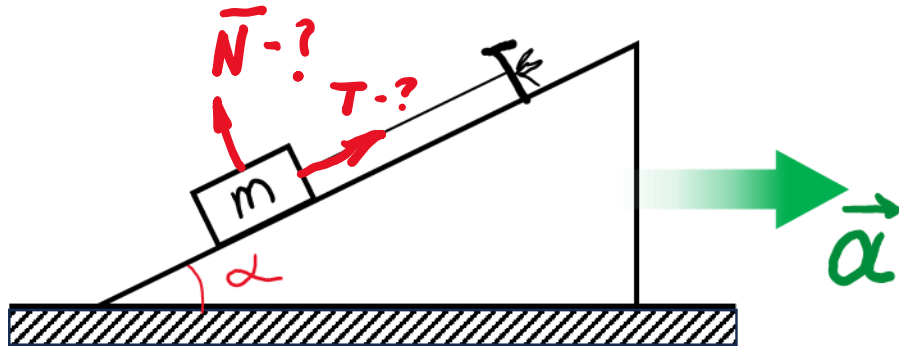Problem

The frictionless wedge (see Figure above) is moving to the right with acceleration a. A brick of mass m is on the surface of the wedge and is attached with a thread as it is shown in the Figure. Find tension T of the thread and normal force N applied by the brick to the wedge.