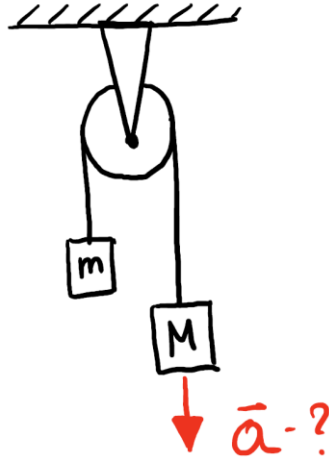
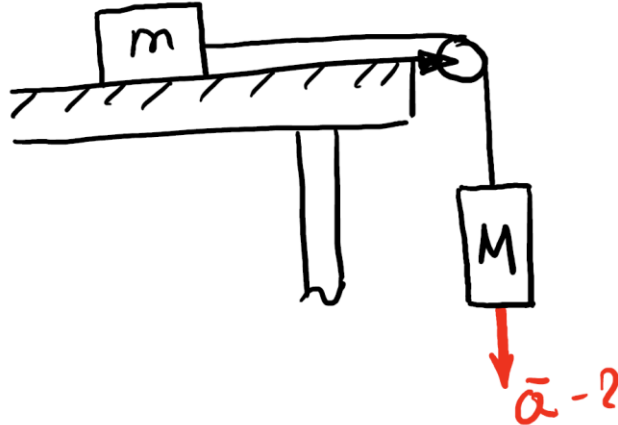


Homework 3

1. There are two weights (masses m and M) attached to a rope which is placed on a pulley (See figure below). Find acceleration a of the right weight (M) and tension force of the rope.



2. Now, the pulley is attached to the edge of the table (See figure below). There is no friction between weight m and the table. Find acceleration of weight " M " and tension force of the rope.



3. Now, same problem as 3, but there is friction between m and the table and the friction coefficient is μ . Find acceleration of weight " M " and tension force of the rope.