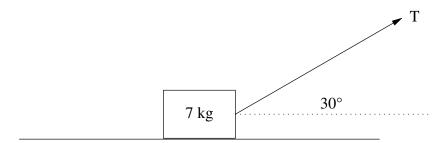
6. (30 pts.) A girl pulls a 7kg box with a massless string along a rough floor with a constant velocity of 0.5 m/s. The coefficient of kinetic friction between the box and the floor is 0.3. The rope makes an angle of  $30^{\circ}$  with the horizontal. Find the work done by the girl in moving the box a horizontal distance of 3 m.



6. (30 pts.) A girl pulls a 7kg box with a massless string along a rough floor with a constant velocity of 0.5 m/s. The coefficient of kinetic friction between the box and the floor is 0.3. The rope makes an angle of 30° with the horizontal. Find the work done by the girl in moving the box a horizontal distance of 3 m.