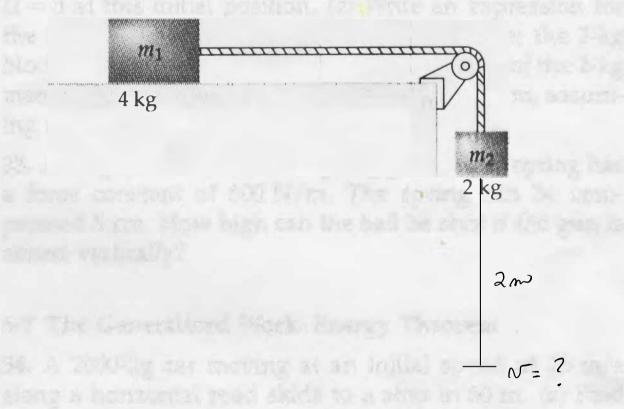
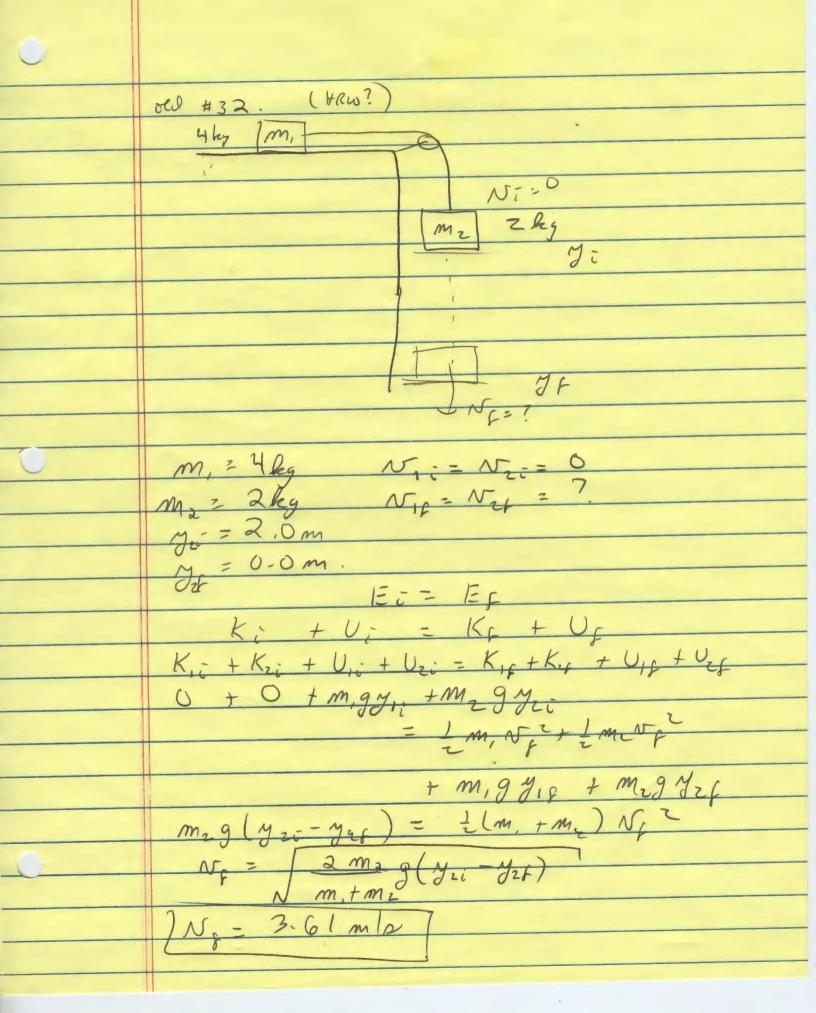
32 In Figure 6-34, the blocks are initially at rest. Choose U = 0 at this initial position. (a) Write an expression for the total mechanical energy of the system after the 2-kg block has fallen a distance y. (b) Find the speed of the 2-kg mass after it has fallen from rest a distance of 2 m, assum-ing no friction.

Figure 6-34 Problems 32 and 38.





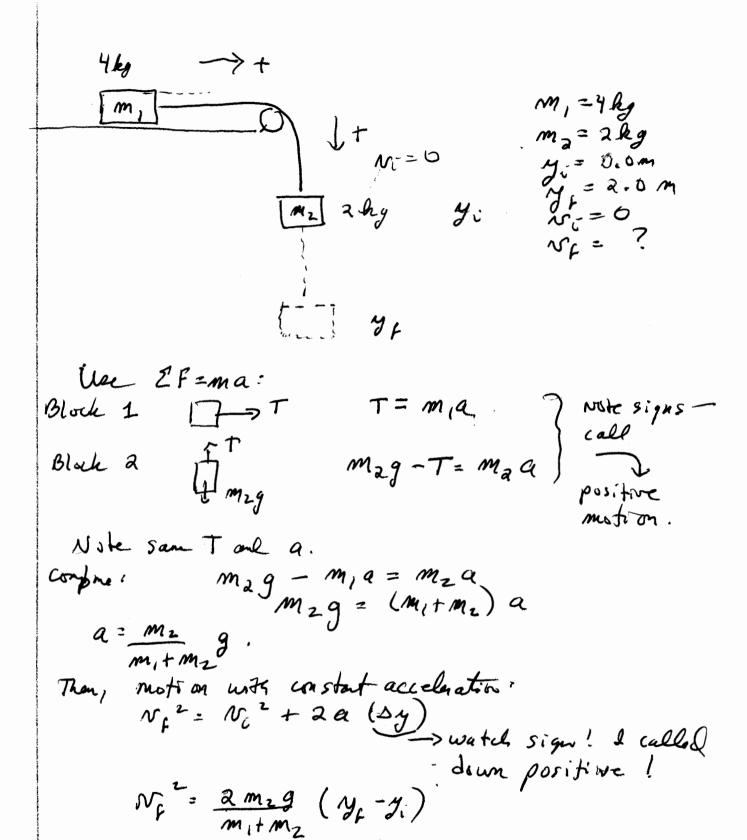
what of there is friction on the top table?

Ki + Vi + Win = Kp + Vi - fx(yzi-yet)

- ux m, g (yzi-yet)

proceed as before. what if the pulley has mass?

Add in $K_{rot} = \pm I W^2$, where W = N/R



N; = 3.61 m/s