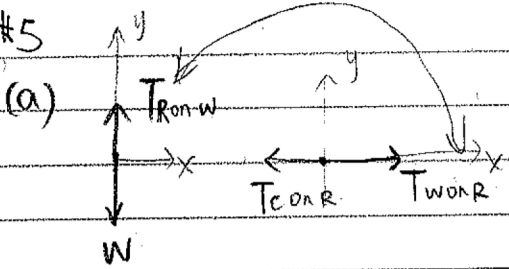
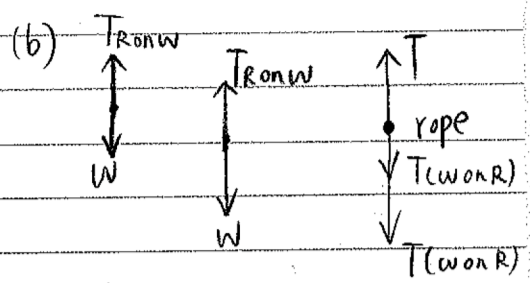


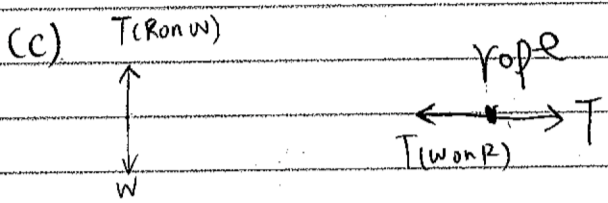
HW #5  
5.2



$T_{R on W} = W$       $T_{C on R} = T_{W on R} = W$

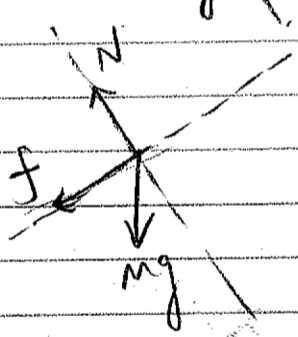
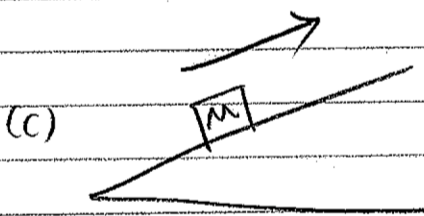
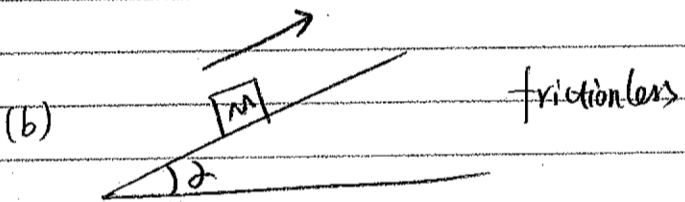
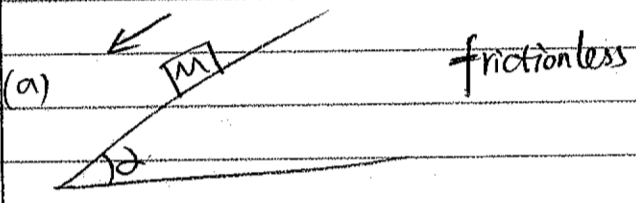


$T_{(R on W)} - W = 0$   
 $T - 2T_{(W on R)} = 0$   
 $T = 2W$

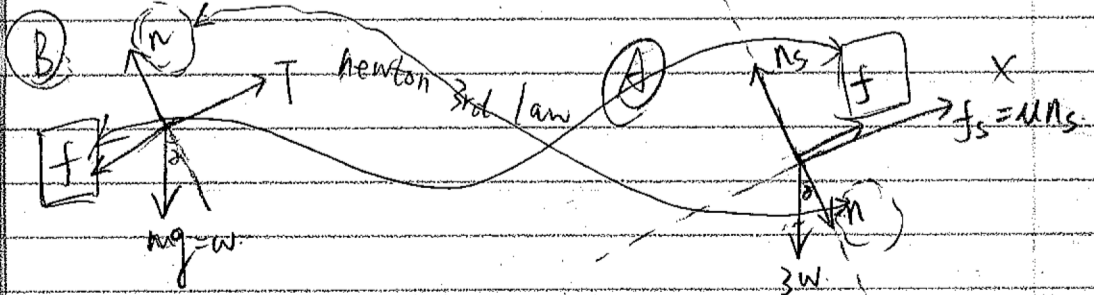
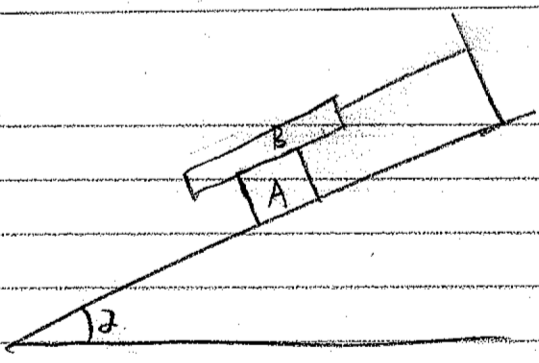


$T = W$

5.27



5.93



$n = W \cos \theta$   
 $f = \mu W \cos \theta$

$N_s = n + 3W \cos \theta$   
 $N_s = 4W \cos \theta$   
 $f_s = 4\mu W \cos \theta$

$X: f + f_s = 3W \sin \theta$   
 $5\mu W \cos \theta = 3W \sin \theta$   
 $\mu_k = 0.45$