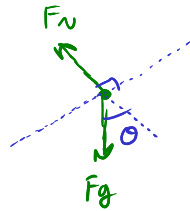
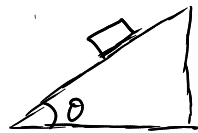


## Some challenging free-body diagrams

① box on a ramp



② 2 people playing tug-o-war



these tensions  
always have the  
same magnitude (equal &  
opposite forces)

③ 2 objects suspended

