Systems of masses!

Ex1: Find the acceleration of the system.

Ex1 (Continued). What would the acceleration be if the µ=0.62?

Ex 1 (Continued Continued) What would the µ have to be so that the system does not move?

Ex2: Wil. E. Coyote is at it again. His box of Acme dynamite (m=120.kg) is hanging over the edge of a cliff. Wil. E. has a mass of 75kg and is pulling against the dynamite with a force of 35N. The µ between him and the ground is 0.52. Will he go over the cliff or rescue his precious dynamite so that he may finally FINALLY catch that Road Runner?

Ex2 (Continued). Elmur Fudd took pity on Wil E. and offered to help. Elmur is incredibly strong. How much force does he need to supply to help the wascally Wil E?

Day 2: More Systems of Masses.

Ex1: In regards to the following Atwood machine, what is the acceleration of the system?

Ex 1 (Continued): What is the force of tension in the rope?