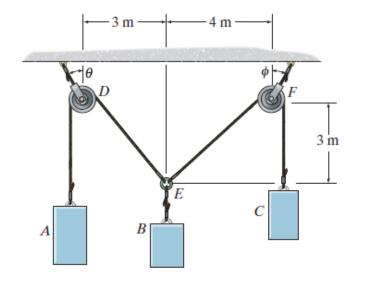
CME 250 – Statics Exam #3 (09/27/2023)

StarID or TechID (no names)

<u>Show your work</u> (you will not receive any credit if all you have is a final answer, right or wrong). Do one of the two problems shown below (the second problem is on the back).

1. Block A has a mass of 20 kg. Determine the weight of block B and the weight of block C so that the system is in equilibrium as shown. Also determine the angle  $\theta$  shown above pulley D.



2. What is the tension in each cable assuming the piece of equipment is in equilibrium as shown.

