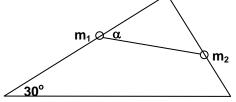
Problems of the Week 4

Always show your work to receive credit (NO WORK=NO CREDIT)

1. A stiff wire frame is formed in the shape of a right triangle and is set in a vertical plane. Two beads of mass $m_1=100g$ and $m_2=300g$ slide without friction on the wires. The two beads are connected by a stiff wire of negligible mass. What is the angle α when the system is in equilibrium?



- 2. A 5.80x10²N Physics 4A student is weighing herself by standing on a scale mounted on a cart that rolls down a hill as shown below. As she rides down the hill the scale reading is 4.80×10^2 N. What is the angle of the hill?
 - A. 11.8° B. 18.6° C. 24.5°

 - D. 29.3°

