**Homework H4.U**

Given: Disks A and B are initially traveling with the same speed v_1 on a smooth horizontal surface, with the line of travel of each at an angle of θ_1, as shown in the figure. After the two disks impact each other, the disks rebound with speeds of v_{A2} and v_{B2}, with lines of travel at angles of θ_{A2} and θ_{B2}. The coefficient of restitution for the impact is e.

Find: Determine numerical values for v_{A2}, v_{B2}, and θ_{B2}.
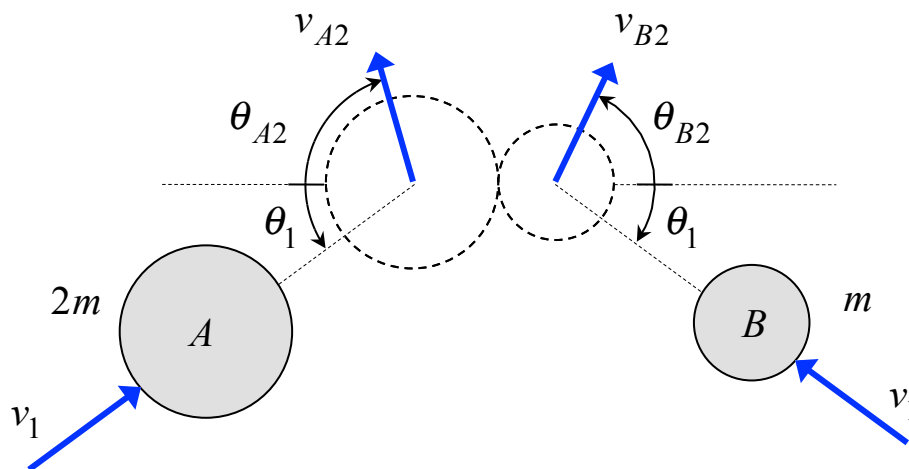
Use the following parameters in your analysis: $v_1 = 20$ ft/s, $\theta_1 = 36.87°$, and $e = 0.8$.