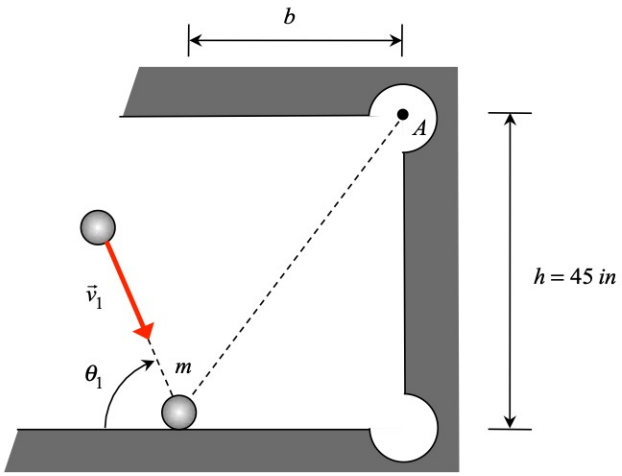
Homework H.4.O

Given: A pool ball is given a velocity of $\vec{v}_1$ at an angle of θ_1 measured from the bumper cushion, as shown in the figure. The coefficient of restitution for the ball impacting the bumper cushion is known to be e. It is desired to drop the ball into the corner pocket at A.

Find: Determine the angle θ_1.



Use the following parameters in your analysis: $e = 0.6$ and $b = 40$ in.