Pendulum Demo

With no regard for his own personal safety your physics professor will risk being smashed by a bowling ball pendulum! If released from a height h, how far will the bowling ball reach when it returns?

$K_{initial} + U_{initial} = K_{final} + U_{final}$

$0 + mgh_{initial} = 0 + mgh_{final}$

$h_{initial} = h_{final}$