Assume the position

A block of mass m = 2.00 kg is released from rest at h = 0.500 m above the surface of a table, at the top of a θ = 30° incline. The coefficient of kinetic friction is 0.40, the the height H of the table is 1.0 m.

1. What is the velocity of the block as it leaves the incline?

2. How far from the table will the block hit the floor?