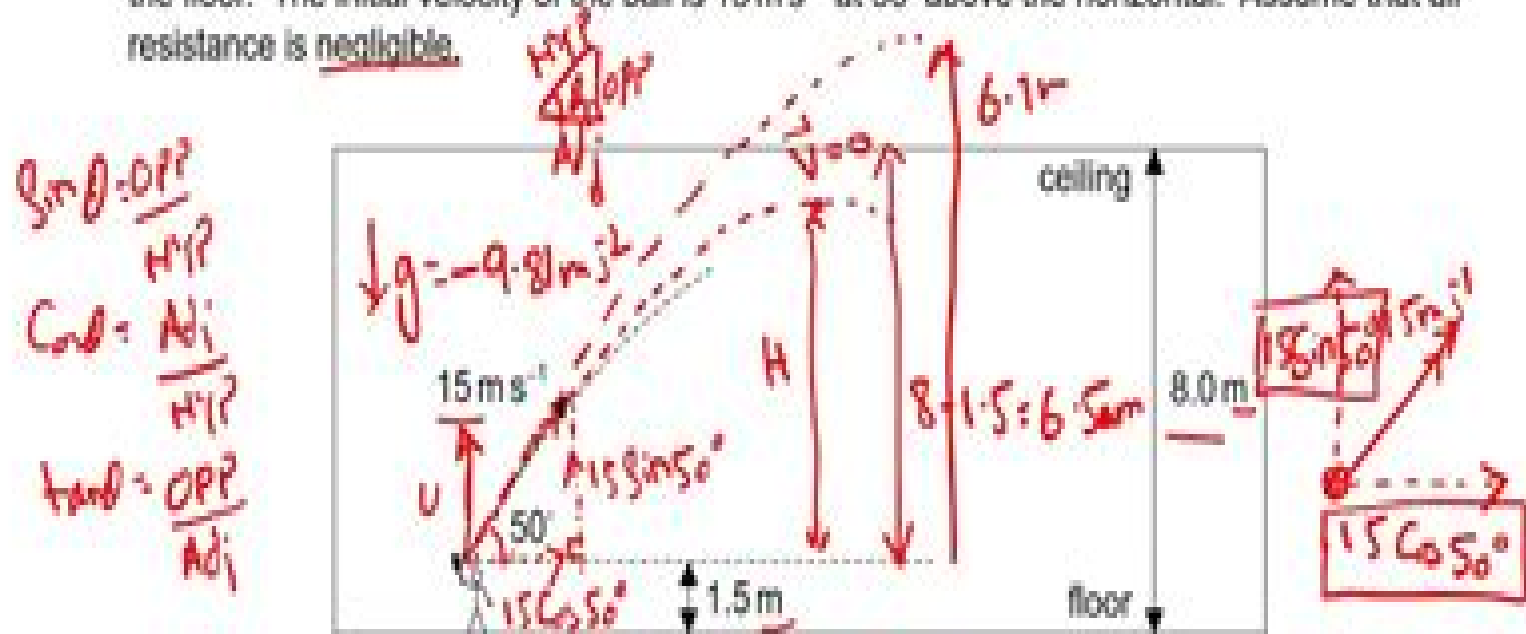


Answer all questions. Write your answers in the boxes provided.

1. A tennis ball is hit with a racket from a point 1.5 m above the floor. The ceiling is 8.0 m above the floor. The initial velocity of the ball is 15 m s^{-1} at 50° above the horizontal. Assume that air resistance is negligible.



- (a) Determine whether the ball will hit the ceiling. [3]

At $H \rightarrow v = 0$

$U = 15 \sin 50^\circ$

$\vec{v}^2 = \vec{u}^2 + 2as$ — vertical

$6.7 \text{ m} > 6.5 \text{ m}$

$s = \frac{v^2 - u^2}{2a} = \frac{0^2 - (15 \sin 50^\circ)^2}{2(-9.8)}$

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reaction when $\Lambda = 0$ equation upper reveals that $h_1 = h_2$ and equation lower that $\beta_1 = \beta_2$ fifty percent reaction stage β_2 and the
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web p1v1 u1 v12 2 gz1 q p2v2 u2 v22 2 gz2 w p1v1 u1 h1 enthalpy of steam at inlet p2v2 u2 h2 enthalpy of steam at exit h1 v12 2 gz1 q h2 v22 2 gz2 w generally changes in potential energy are negligible z1 z2 if no heat is supplied from the surroundings then q 0

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