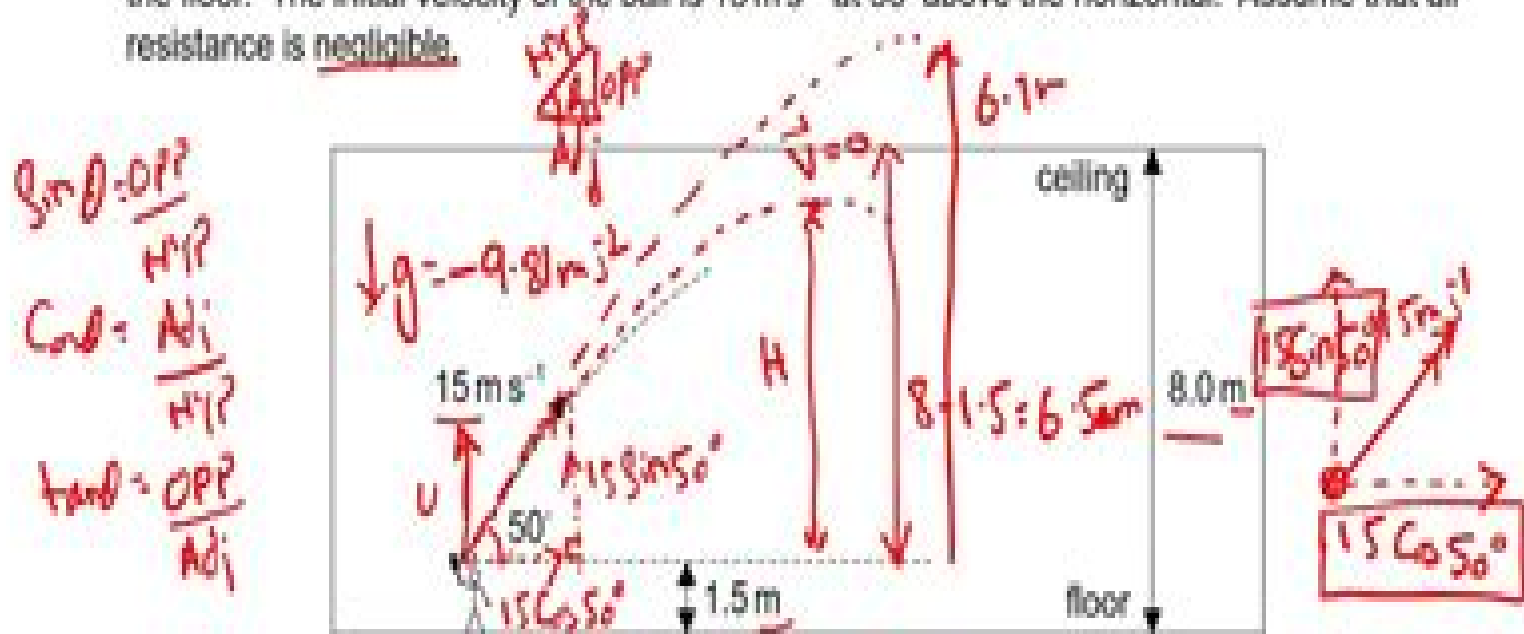


Answer all questions. Write your answers in the boxes provided.

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  $15 \text{ m s}^{-1}$  at  $50^\circ$  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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A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name 'Chao Zhang'.

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