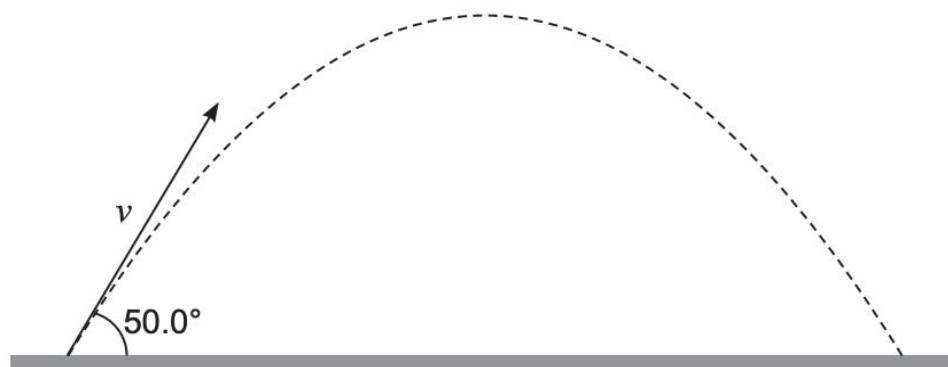**Question 7** **(4 marks)**

A golfer plays a high chip shot by hitting the ball at an angle of 50.0° to the horizontal, as shown in the diagram. The ball reaches a maximum height of 21.5 m above the ground.

Calculate the initial speed of the ball when hit.