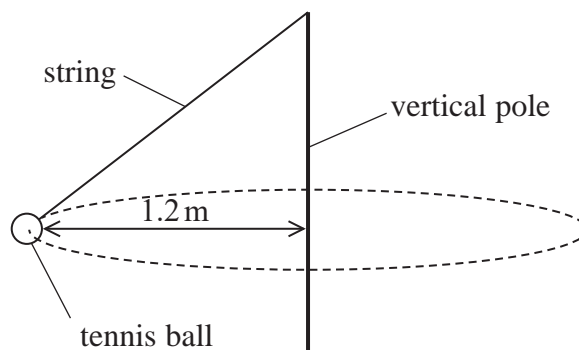


- 13 A 'tennis trainer' consists of a tennis ball suspended by a string from the top of a vertical pole. When the ball is hit it travels in a horizontal circle around the pole, as shown in both the photograph and the diagram.



The radius of the path of the ball is 1.2 m and the speed of the ball is 3.8 m s^{-1} .

Deduce whether these values are consistent with the angle between the string and the vertical pole shown in the photograph.