

QUESTION

Two identical spheres are suspended from a horizontal bar by two strings of equal length. The spheres are released from rest at an angle θ to the vertical. The strings are vertical at the lowest point of the spheres' paths. The spheres are released from rest at an angle θ to the vertical. The strings are vertical at the lowest point of the spheres' paths.



- Which of the following is true at the lowest point of the spheres' paths?
- A. The tension in the string is equal to the weight of the sphere.
 - B. The tension in the string is greater than the weight of the sphere.
 - C. The tension in the string is less than the weight of the sphere.
 - D. The tension in the string is zero.

ANSWER: B

QUESTION

A ball is launched from the top of a building of height h above the ground. The ball is launched at an angle θ above the horizontal. The ball is launched at an angle θ above the horizontal. The ball is launched at an angle θ above the horizontal.



Which of the following is true at the lowest point of the ball's path?

- A. The tension in the string is equal to the weight of the sphere.
- B. The tension in the string is greater than the weight of the sphere.
- C. The tension in the string is less than the weight of the sphere.
- D. The tension in the string is zero.

ANSWER: B