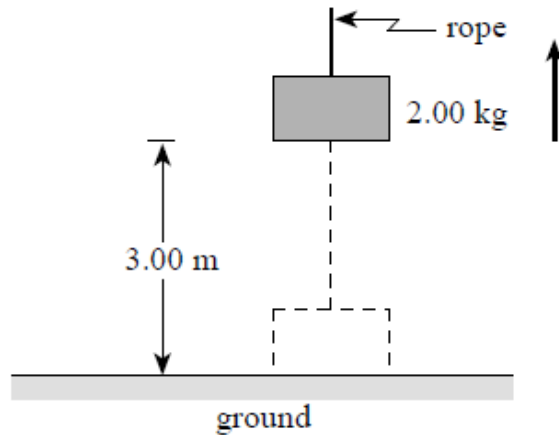


Physics 12 Review #14

1.

A 2.00 kg object, initially at rest on the ground, is accelerated vertically by a rope, as shown. The object reaches a height of 3.00 m in 1.50 s.



What is the tension in the rope during the acceleration?

- A. 5.33 N
- B. 14.3 N
- C. 23.6 N
- D. 24.9 N

2.

Unless acted on by an external net force, an object will stay at rest or

- A. come to rest.
- B. decelerate at a constant rate.
- C. slow down from a given speed.
- D. continue to move in a straight line at a constant speed.