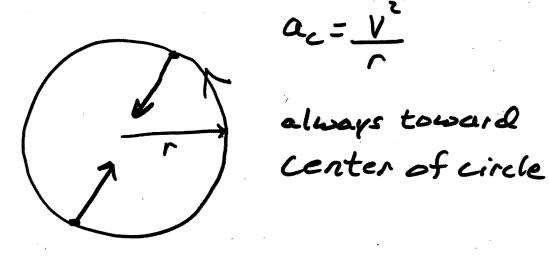
Read 5.3

Group tomorrow

office hours 1:30-2:30

Review

Uniform Circular Motion motion in a circle with constant speed (V)



Fret = Mac = MV

Sum of all forces in radial direction

Interactive Question



string. Assume the string is exactly horizontal. The string A boy is whirling a stone around his head by means of a keeping the radius of the circle unchanged so that the string is 7. The boy then doubles the speed of the stone, makes one revolution every second and the tension in the neglect the effects of gravity). string makes two complete revolutions every second. What happens to the tension in the string? (You can

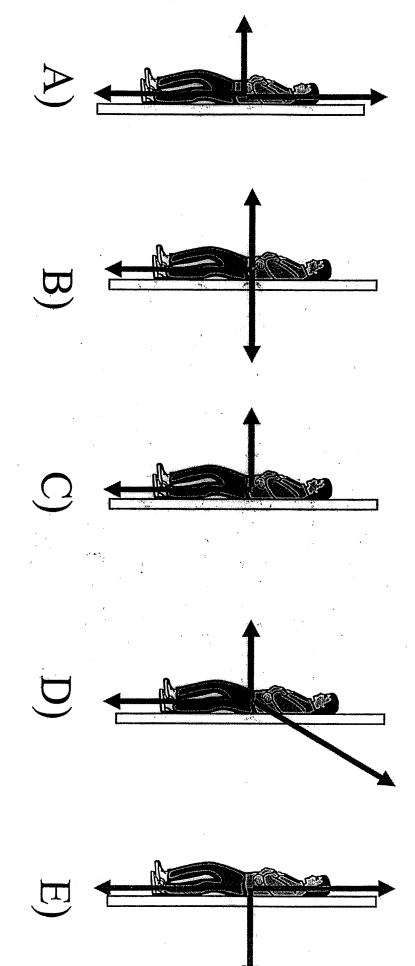
- A) It remains unchanged
- B) It is reduced to half of its original value.
-) It is increased to twice its original value.
- D) It is reduced to one-fourth of its original value.
- E) It is increased to four times its original value.

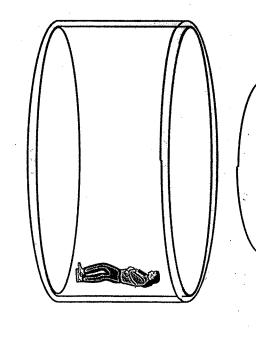
Problem: You tie a ball to a 0.80 m long string and rotate the ball in a horizontal circle that makes an angle of ball to the "center of the circle" is 27 cm and the ball 20° with the vertical direction. The distance from the takes 1.7 seconds to complete one circle.

(b) Why is the string at an angle? a) went ar hy seconds to complete a revolution What is the centripetal acceleration? Qc = 3,74/52

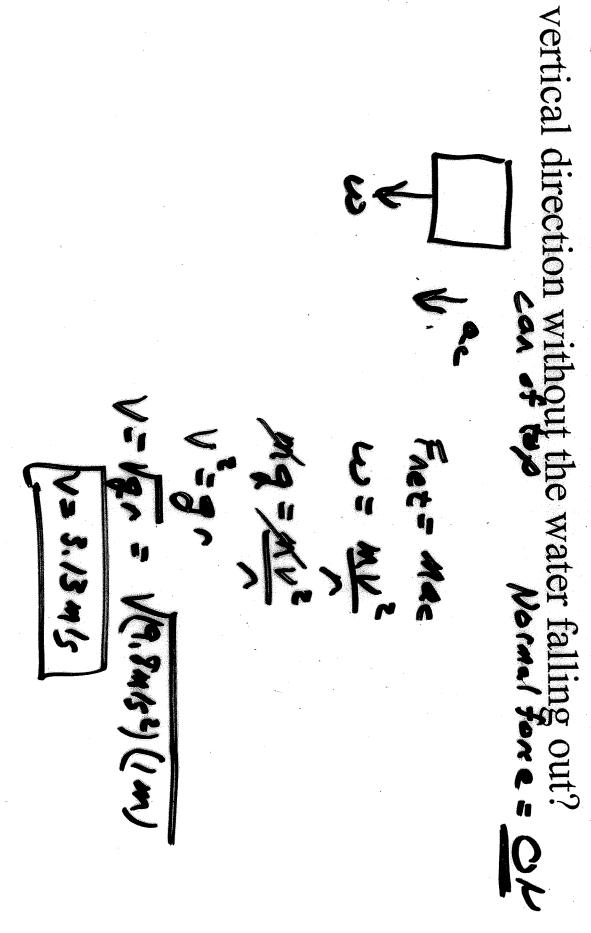
Interactive Question

stuck with her back to the wall. the "barrel of fun" finds herself forces acting on her? A rider in an amusement park ride, Which diagram correctly shows the





can filled with water attached to a 1.0 m long string in a Problem: What is the minimum velocity you can spin a



problem, what is the normal force at the bottom of the Problem: If you are spinning a can as in the previous

circle?