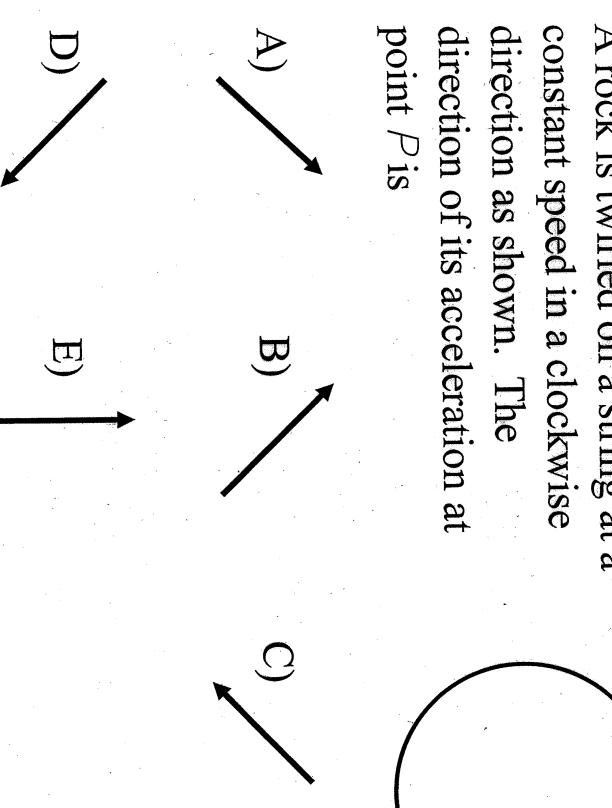
Read 5.2

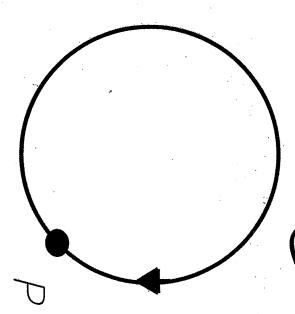
11.w 4 Due today H.w 5 available

Lots of office hours today
me: 11:30-12:30

Please keep talking down

constant speed in a clockwise direction as shown. The A rock is twirled on a string at a direction of its acceleration at







acceleration change? one-half as fast. By what factor does your centripetal horse, the merry-go-round slows down so that it is rotating You are riding on a merry-go-round. While sitting on a

- A) It is one-fourth as much
- B) It is one-half as much
- C) It is the same
- D) It is twice as much
- E) It is four times as much

acceleration of 2.2 "g's." What is the radius of the curve? banked curve. The bobsledders feel a centripetal traveling at a speed of 35 m/s when it moves through a Problem: In an Olympic bobsled race, the sled is



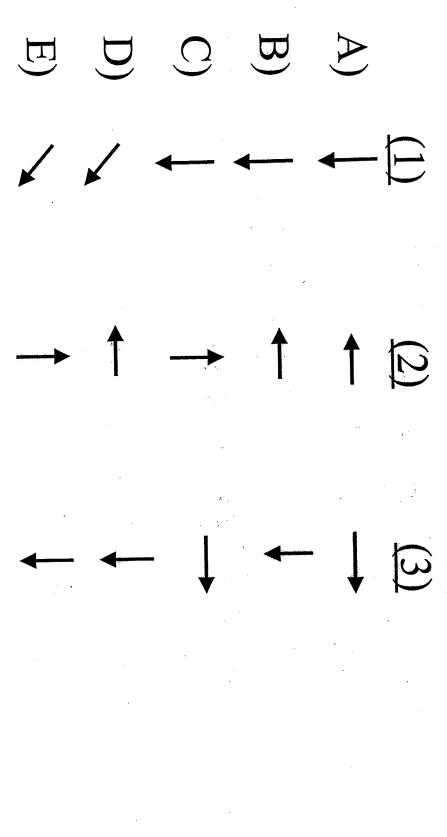
- a circular track which has a radius of 80 m. Which statement is true concerning this car? A 1500 kg car travels at a constant speed of 22 m/s around
- A) The velocity of the car is changing.
- B) The car is characterized by constant velocity.
- C) The car is characterized by constant acceleration.
- D) The car has a velocity vector that points along the radius of the circle
- E) More than one of the above is true.

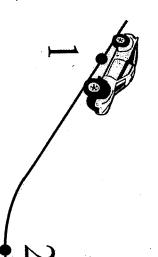


A toy car rolls down a track and flies off the end.

What direction is the instantaneous acceleration

at points 1, 2 and 3?

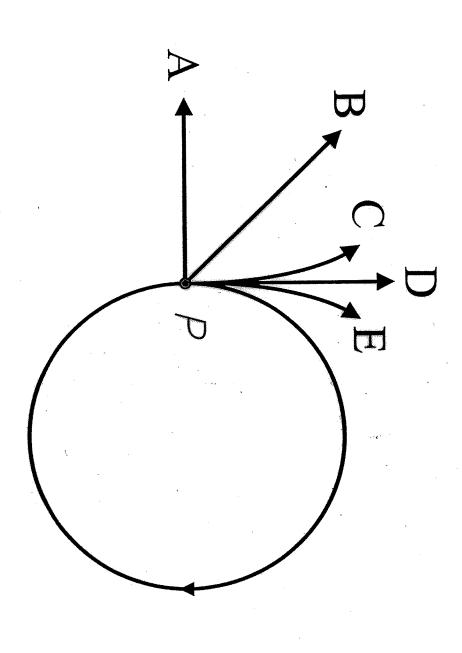




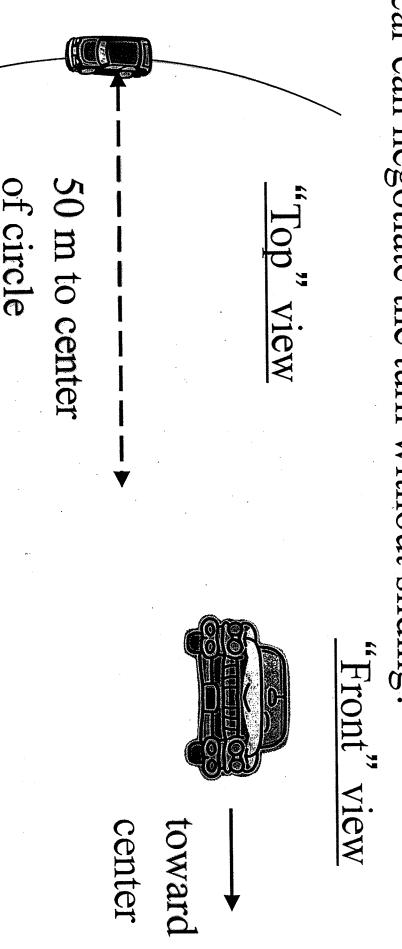




clockwise in a horizontal circle. The string breaks at point path will the rock follow? A boy attaches a rock to a string which he then swings Pon the sketch which shows a view from above. What



radius 50.0 m. If the maximum force the road can exert car can negotiate the turn without sliding? on the tires is 12,000 N, what is the maximum speed the Problem: A 1900 kg car turns a corner on a flat road of



F: 12009 r: son (50m) 12000 W 1900 kg 21810