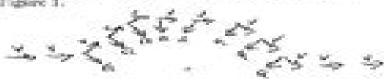
# Uniform Circular Motion: Worksheet 1

Assumes that the car shown belief is point at a constant speed



Construct a qualitative motion map of the car in Flighting 31.



In what direction is the cur experiencing acceleration? Explain how you know.

toward. The coulor of the circle well-now it is accolorating lak it is obverging direction

Construct a force diagram for the car when it's at the top of the bill.

to is large by thet is in the direction on the accidencial on all the top of

 Suppose the speed of the car is 11.1 m/s (\* 25 mph) and the radius of curvetuse of its 25 ms. determine the magnitude of the contributed appringation of the car.

5. If the mass of the car is \$1200 kg, what Four would be required to cause this pennipotal Frece = MA, = (120004)(493000) = 15916N

Now, determine values for the forces in your force discrem of number 3.

In-our-mo, to 
$$F_0 - F_N = ma_n$$
 to  $FLEQ YEACH) - F_N = (MCCEN) HARRING MAN  $N - F_N = 6.976 N$  at white appeal would the contributed force agost the force of gravity!$ 

3. Suppose the car were going favor than the speed that you unloaded the question 7; describe what would become to the car.

it would come one the hill be when more may means there is no more number force

# **Modeling Workshop Project 2006 Physics Unit 7**

**Michael Seilmaier** 

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