Project 6 - Initial Value Problems - Part D

Due Friday 3-8

This assignment will blends an initial value problem with vectors.

1. A baseball player hits a 0.15 kg baseball at a 30 degree angle. She hits the ball at 80 m/s.
   (a) How far does the ball go? No air drag
   (b) How far does the ball go? Assume air drag model $F_D = 0.005 * v^2$ in a direction opposite the velocity.
   (c) Graph y(x) in Excel.
   (d) At what speed must the player hit the ball in New York to get a home run (distance=100m). How about Denver where the air drag coefficient is about 20 % less due to thinner air.

Submit your cpp file to the P6 dropbox. Please label your cpp file Name6D.cpp.