

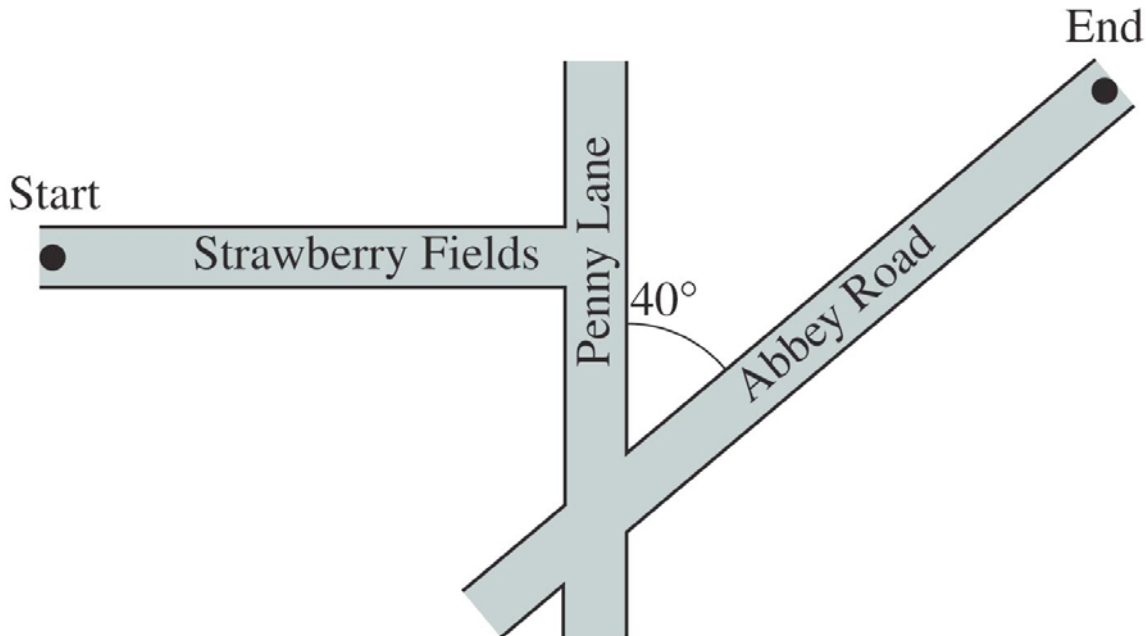
Written Homework #4

Physics 131 Spring 2009

Due on Friday 27 Feb 2009 at the beginning of lecture.

Write down your name and student ID number.

While visiting England, you decide to take a jog and find yourself in the neighborhood town shown in the map below.



- What is your displacement after running 3.0 km on Strawberry Fields, 1.0 km on Penny Lane, and 4.0 km on Abbey Road?
- Draw a graph showing the three consecutive displacement vectors and their sum (the total displacement vector). Use the x axis to represent Strawberry Fields and the y axis to represent Penny Lane. Be sure to label the axes.
- Calculate the angle between the total displacement vector and the x axis.

Show your work to get full credit.