Lab 5

Due: Wednesday, November 4

1 Coordinate Conversion

Download the file "polar.dat" from Google Drive. Even though it has the extension ".dat" it is just a text file so you should be able to open it. The file has the format:

```
RADIUS  ANGLE
radius1  angle1
radius2  angle2
etc...
```

Write a C++ program to read both columns into vectors, convert into Cartesian coordinates, and then write the results to the file "cart.dat" which has the format:

```
X  Y
x1  y1
x2  y2
etc....
```

Turn in both the cpp file and the text file to Canvas.