The formulas for WGS-84 to Cartesian: <https://en.wikipedia.org/wiki/Geographic_coordinate_conversion#From_geodetic_to_ECEF_coordinates>

The values for equatorial radius and polar radius: <https://en.wikipedia.org/wiki/Earth_radius#/media/File:WGS84_mean_Earth_radius.svg>

The math and cvs portions:

<https://docs.python.org/3/library/math.html>

<https://docs.python.org/3/library/csv.html>

The check for file line:

<https://therenegadecoder.com/code/how-to-check-if-a-file-exists-in-python/>

The calculations were compared with an online convertor:

<http://www.apsalin.com/convert-geodetic-to-cartesian.aspx>

Actions:

- modify output to multiple files

- Generalized data by:

- Using Pythagorean Theorem to get the distance travelled between each point

- using Pythagorean Theorem to plot the distance on a 45 degree line