HW4 Problem 3

```
fprintf('\n');
clearvars -except function_list hw_pub toolsPath
close all
CelestialConstants; % import useful constants

lat = 40.01*pi/180; % rad
lon = 254.83*pi/180; % rad
h = 1.615; %km
theta_GST = 103*pi/180; % rad

r_eci = ecef2eci(latlonalt2ECEF(lat, lon, h), theta_GST);
fprintf('r_eci = %.2f \n', r_eci(1));
fprintf('        %.2f km\n', r_eci(2));
fprintf('        %.2f \n', r_eci(3));
```

```
r_eci = 4882.85
        -185.02 km
        4101.59
```

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