HW4 Problem 4

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

% Boulder, CO
lat = 40.01*pi/180; % rad
lon = 254.83*pi/180; % rad
h = 1.615; %km

r_sat_ecef = [-1681;-5173;4405];

topo = ecef2topo( r_sat_ecef, lat, lon, h);
fprintf('Azimuth: %.2f deg\n', topo(1)*180/pi);
fprintf('Elevation: %.2f deg\n', topo(2)*180/pi);
fprintf('Range: %.2f km\n', topo(3));
```

```
        Azimuth: 246.15 deg
        Elevation: 64.41 deg
        Range: 680.22 km
```

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