Contents

Problem set 3

```
clear all; close all; clc;
```

3.1.a.)

```
%Stanford is located at
geolat = 37.4226 *pi/180    %[rad]
lon = -122.1654 *pi/180     %[rad]
alt = -9/1E3;    %[km]

[x y z] = Geodetic_To_ECEF(geolat, lon, alt)
```

```
geolat =

   0.653147584656830


lon =

  -2.132188462015880


x =

  -2.699955191921852e+03


y =

  -4.293203518465034e+03


z =

   3.854739908494671e+03
```

3.1.b.)

```
[gdlat lon alt] = ECEF_To_Geodetic(x, y, z)
```

```
gdlat =
```

```
    0.653147584656826


lon =

    -2.132188462015881


alt =

    -0.009000000000015
```