HW3 Problem 2

```
fprintf('\n');
clearvars -except function_list hw_pub toolsPath
close all
CelestialConstants; % import useful constants
p = 11067.790;
e=0.83285;
a = p/(1-e*e);
i = 87.87*pi/180;
RAAN = 227.89*pi/180;
w = 53.38*pi/180;
f = 92.335*pi/180;
[r, v] = OE2cart( a,e,i,RAAN,w,f,Earth.mu);
fprintf('r\_ECI = %.2f\n',r(1));
fprintf(' % .2f km \ ', r(2));
fprintf('
                %.2f\n\n',r(3));
fprintf('v\_ECI = %.3f\n',v(1));
fprintf('
                %.3f \text{ km/s} n', v(2));
fprintf('
                %.3f\n',v(3));
        r\_ECI = 6525.37
                6861.53 km
                6449.12
        v\_ECI = 4.902
                5.533 \text{ km/s}
                -1.976
```

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