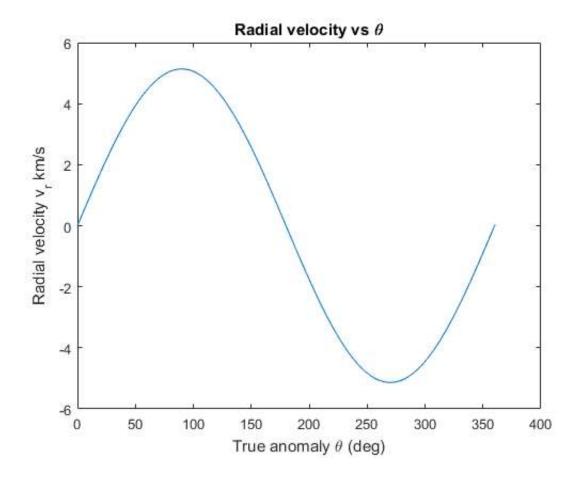
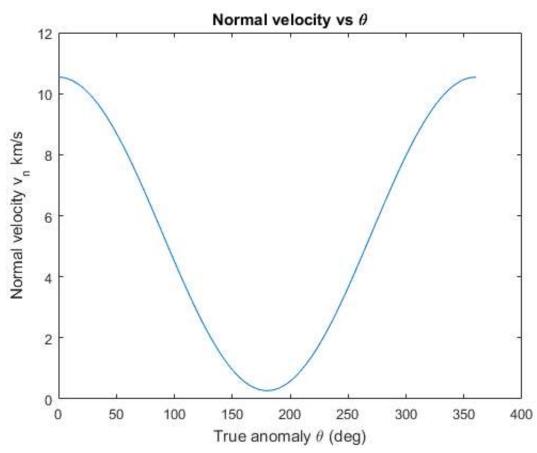
```
clc; close all; clear all
a=140000 ;
e=0.95;
m1=5.974e24;
m2=00;
mu=6.6742e-20*(m1+m2)
spec e=-mu/2/a;
r p=a*(1-e);
h=sqrt(r_p*mu*(1+e));
radVel theta(e,h); % plots radial velocity against theta
normVel theta(e,h); % plots normal velocity against theta
pathAngle(e); % plots flight path angle against theta
fprintf('\n\n----\n')
fprintf('\n Specific energy\n')
fprintf(' %s\n', spec e )
fprintf('\n Specific angular momentum \n')
fprintf(' %s\n', h )
fprintf('\n-----
```

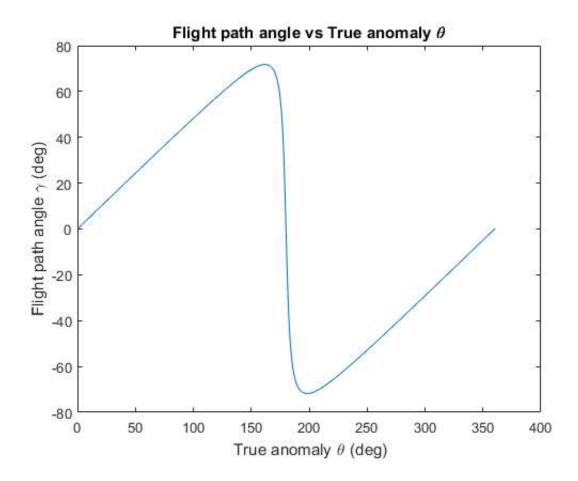
```
mu =
    3.9872e+05

Specific energy
-1.423988e+00

Specific angular momentum
7.377319e+04
```







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