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

Problem 6

```
phidot = 1.5*2*pi/3600;  
R = 3;  
L = 30;  
theta = 30*pi/180;  
m = 1;  
Ixx = m*(1/12*L^2 + 1/4*R^2);  
Iyy = Ixx;  
Izz = 1/2*m*R^2;  
psidot = (Iyy-Izz)/(Izz)*phidot*cos(theta);  
  
fprintf('Spin Rate: %.1f rev/hr \n', psidot/(2*pi)*3600)  
  
Spin Rate: 21.0 rev/hr
```

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