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```
clear
clc
```

#### Case 2 with spin about minor axis

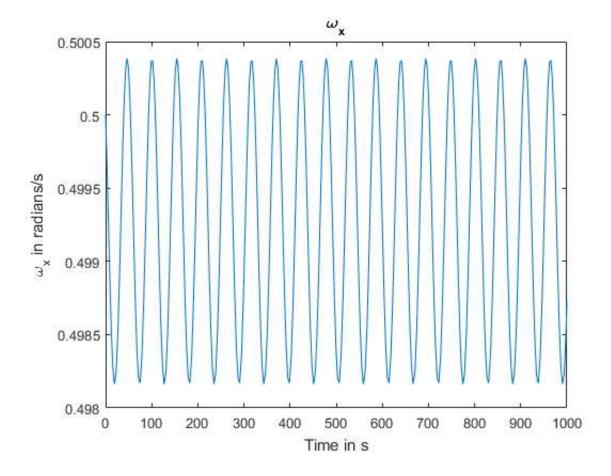
### **Numerically solving the ODE**

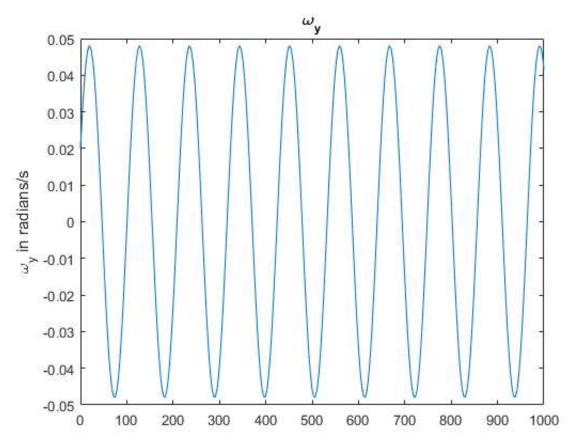
## **Angular velocities**

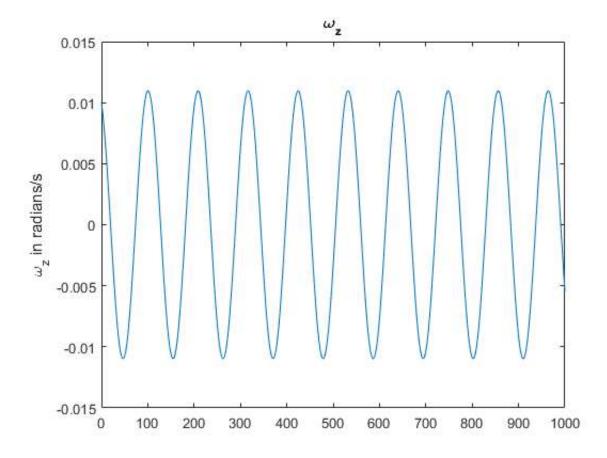
```
figure
plot(tout, wout(:,1))
ylabel('\omega_x in radians/s')
title('\omega_x')
xlabel('Time in s')

figure
plot(tout, wout(:,2))
ylabel('\omega_y in radians/s')
title('\omega_y')

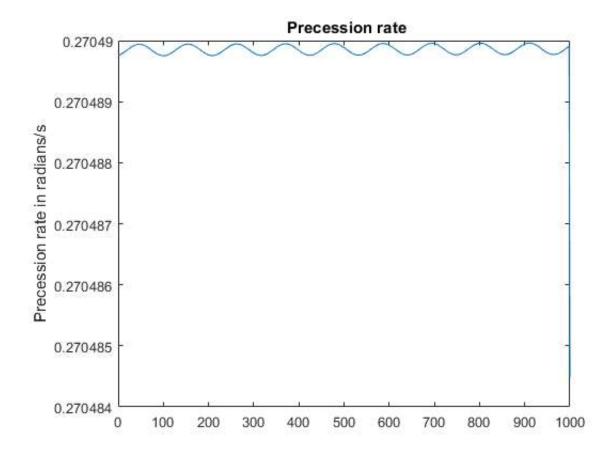
figure
plot(tout, wout(:,3))
ylabel('\omega_z in radians/s')
title('\omega_z in radians/s')
title('\omega_z')
```







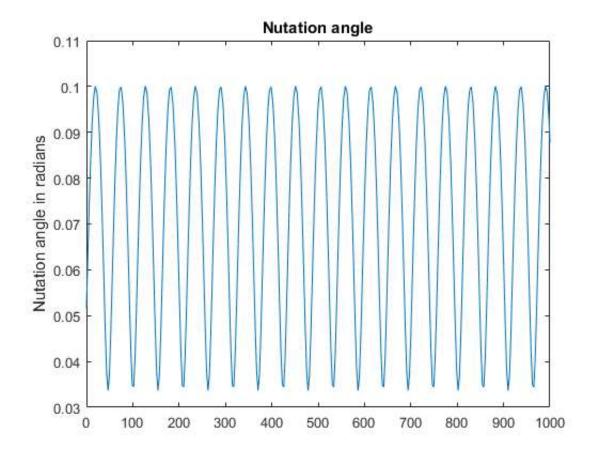
#### **Precession rate**



# **Nutation angle**

```
% gamma=acos(H(3,:)./h); % case 1 nutation angle
gamma=acos(H(1,:)./h); % case 2 nutation angle

figure
plot(tout, gamma)
ylabel('Nutation angle in radians')
title('Nutation angle')
```



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