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```
clear
clc
```

Case 1 with spin about major axis

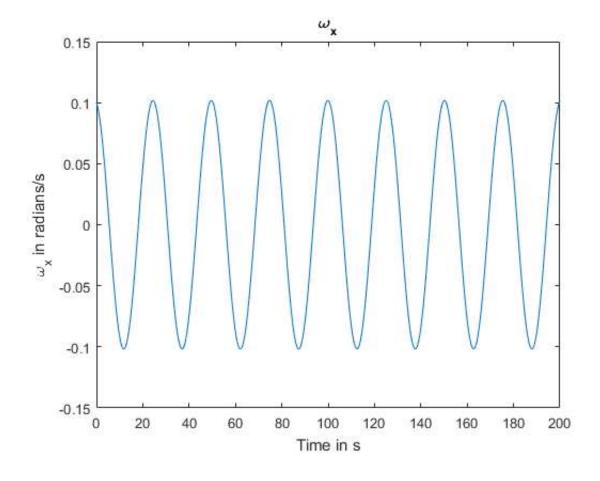
Numerically solving the ODE

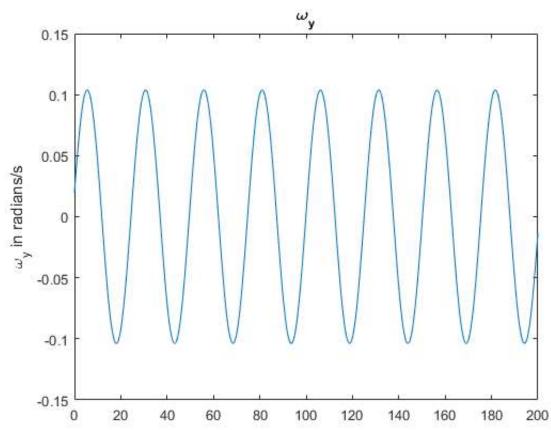
Angular velocities

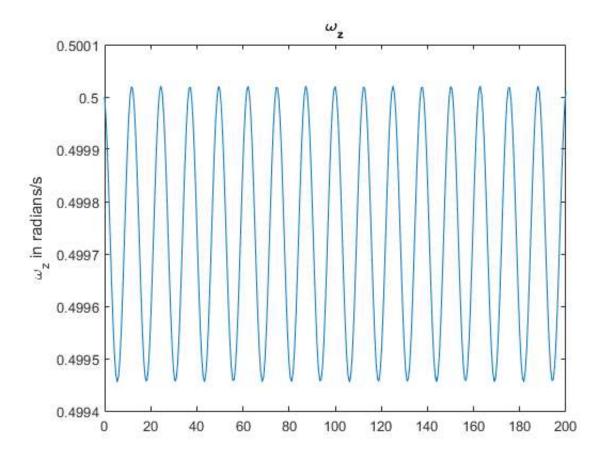
```
figure
plot(tout, wout(:,1))
ylabel('\omega_x in radians/s')
title('\omega_x')
xlabel('Time in s')

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

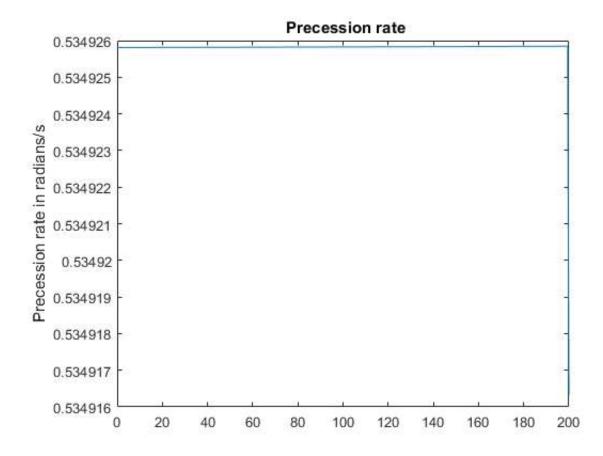
figure
plot(tout, wout(:,3))
ylabel('\omega_z in radians/s')
title('\omega_z in radians/s')
title('\omega_z')
```



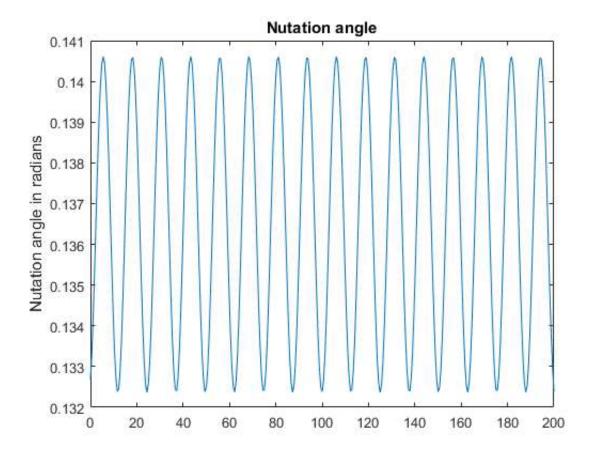




Precession rate



Nutation angle



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