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Roshan Jaiswal-Ferri

%Section - 01

%AERO 302 Homework 4 - 12/10/24

Workspace Prep

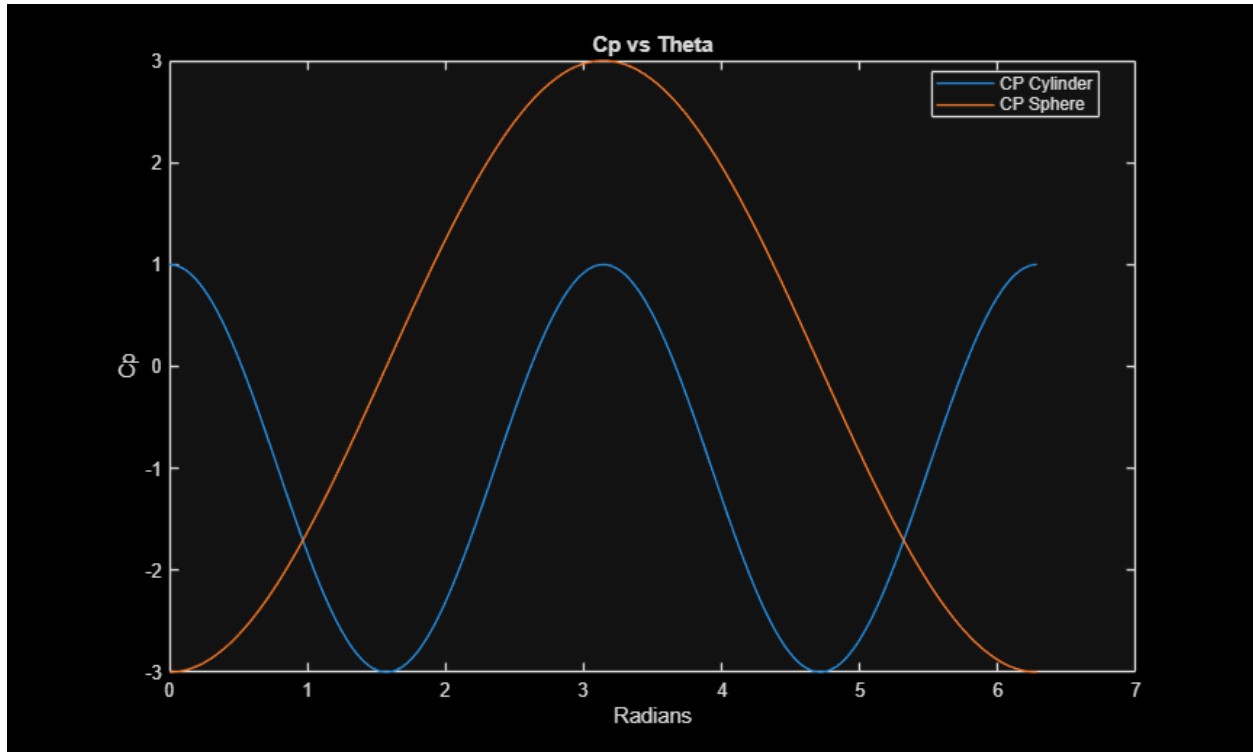
```
format long           %Allows for more accurate decimals
close all;            %Clears all
clear all;            %Clears Workspace
clc;                  %Clears Command Window
```

PART 1: Plotting

%assume flow unity: Re = 1

```
Re = 1;
theta = linspace(0,2*pi,200);
Cpcyl = 1-4*(sin(theta)).^2;
Cpsph = -(3/Re)*cos(theta);

figure
plot(theta,Cpcyl);
hold on
plot(theta,Cpsph)
xlabel('Radians')
ylabel('Cp')
title('Cp vs Theta')
legend('CP Cylinder', 'CP Sphere', Location="best")
```



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