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```

% Sanay Doshi, Alex Ji, Lab 0

h1 = tf([1],[1 1])
h2 = tf([1],[1,0.5,3])
h3 = h1 *h2
% stepplot (h3)
% grid on

% steady state value = 0.3331191
fig = figure
[y, t] = step(h3);
peak_val = max(y);
plot(t,y)
grid on
t2 = 0:0.1:max(t);
z = 0.33*(1-exp(-0.5*t2));
hold on
plot(t2,z, 'LineStyle',':')
legend('Graph 1', 'Graph 2')
xlabel('time(t)')
ylabel('value(y)')
title('Alex Ji, Sanay Doshi \alpha \zetaeta \omega \pi ')
orient(fig, 'landscape')

```

$h1 =$

$$\frac{1}{s + 1}$$

Continuous-time transfer function.

$h2 =$

$$\frac{1}{s^2 + 0.5 s + 3}$$

Continuous-time transfer function.

$h3 =$

$$\frac{1}{s^3 + 1.5 s^2 + 3.5 s + 3}$$

Continuous-time transfer function.

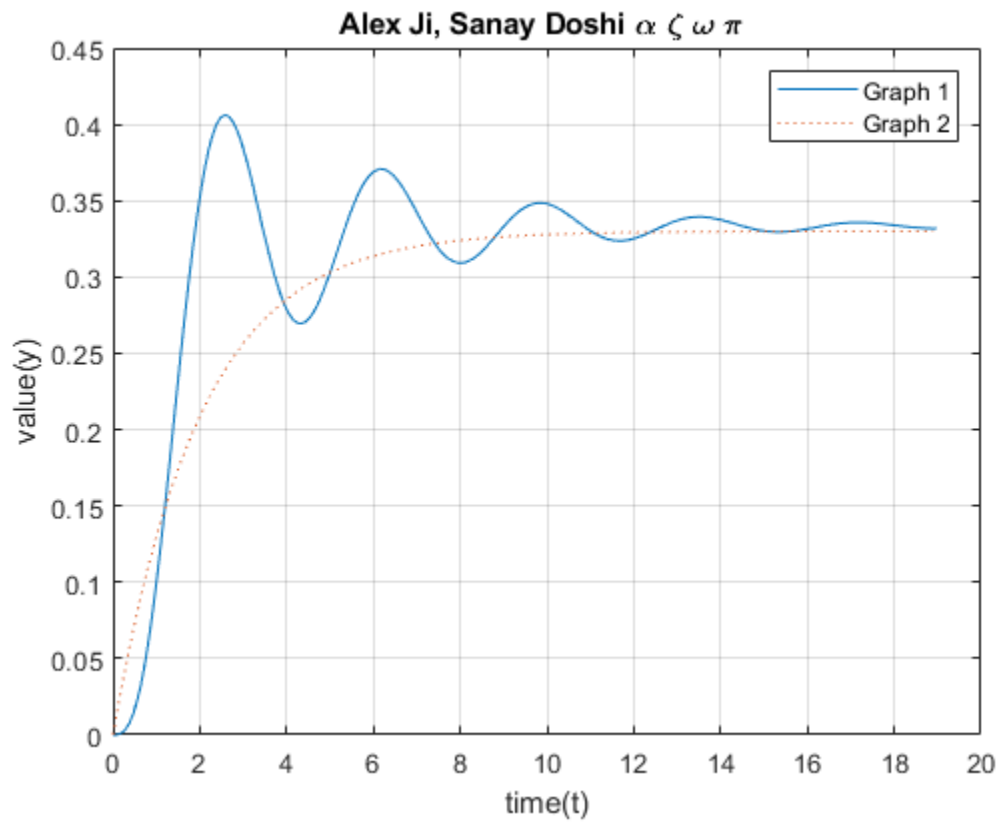
$fig =$

Figure (3) with properties:

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Number: 3  
Name: ''  
Color: [0.9400 0.9400 0.9400]  
Position: [680 458 560 420]  
Units: 'pixels'

Use GET to show all properties



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