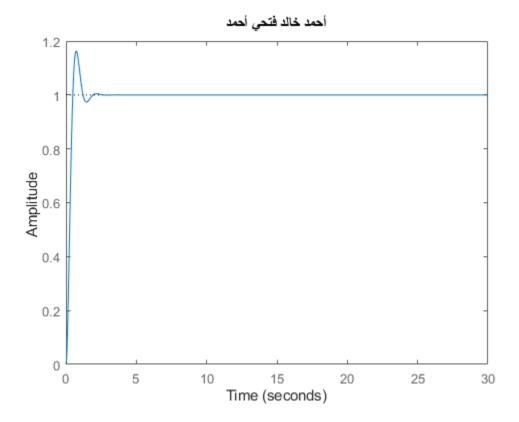
```
clc
close all
clear
syms y(t) s Y u(t) U
Dy = diff(y,t,2) + 5*diff(y,t) + 25*y == 25*u;
LHS = laplace(Dy, t, s);
LHS = subs(LHS, {laplace(y,t,s), laplace(u,t,s), y(0), subs(diff(y,t), t,0)},
{Y,U,0,0});
pretty (LHS)
Y over U = solve(LHS, Y)/U;
pretty (str2sym('Y(s)')/str2sym('U(s)'))
pretty (solve(LHS,Y)/U)
m=1; c=5; k=25;
G = tf(25, [m c k]);
step(G,30)
title('احمد خالد فتحى أحمد');
Y s + 5 Y s + 25 Y == 25 U
Y(s)
____
U(s)
      25
s + 5 s + 25
```



 $e^{\pi i}+1=0$ 

Published with MATLAB® R2024a