```
%%MATLAB FILE%%
%Problem #6
%Ogata B-10-3
num1=[1,5];
den1=[1];
num2=[10];
den2=[1,3,2,0];
num3=[0,5,1];
den3=[1];
sys1=tf(num1,den1);
sys2=tf(num2,den2);
sys3=tf(num3,den3);
sys=series(sys1,sys2);
sys_ClosedLoop=feedback(sys,sys3)
sys_ClosedLoop =
         10 s + 50
  _____
 s^3 + 53 s^2 + 262 s + 50
```

Continuous-time transfer function.

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