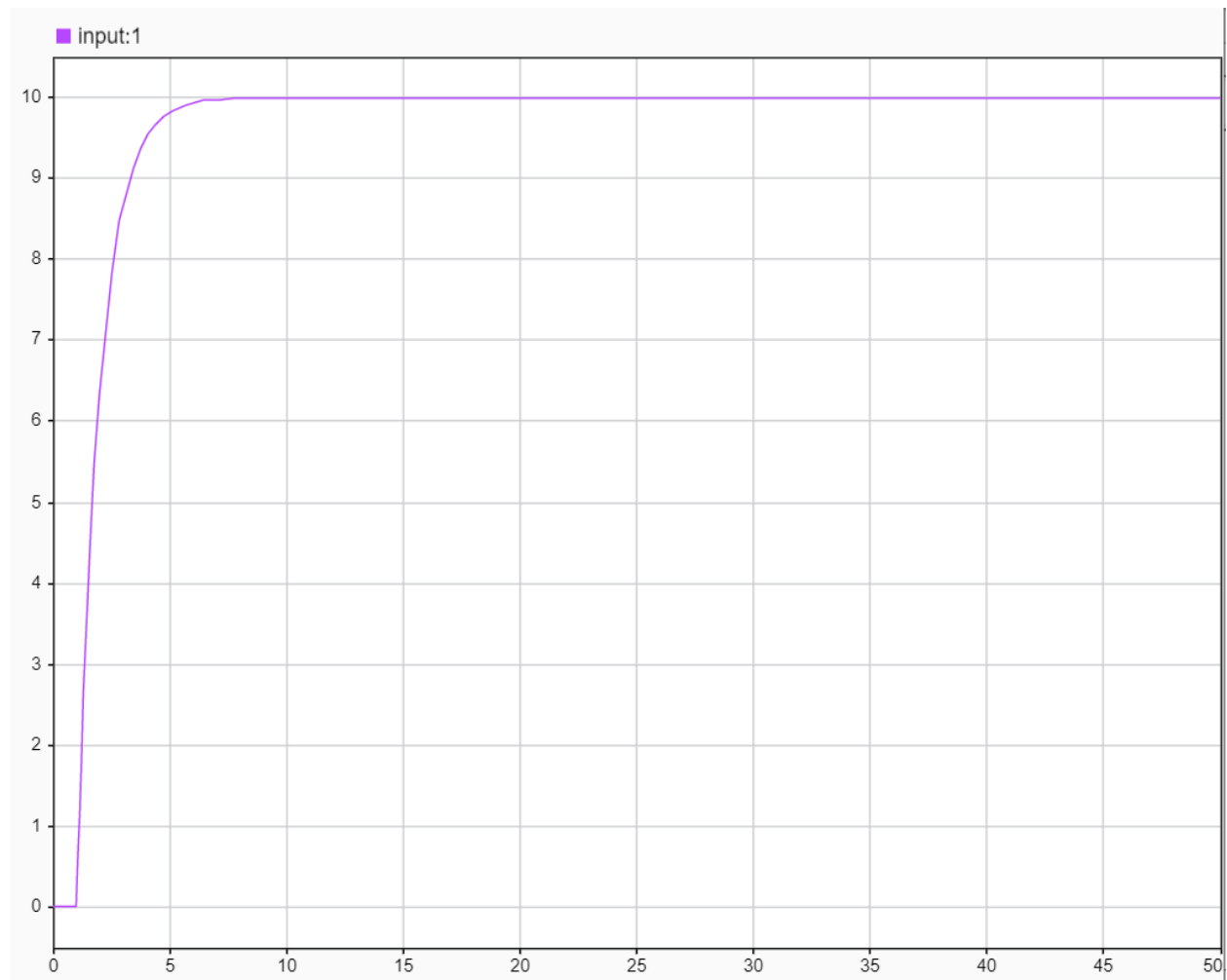
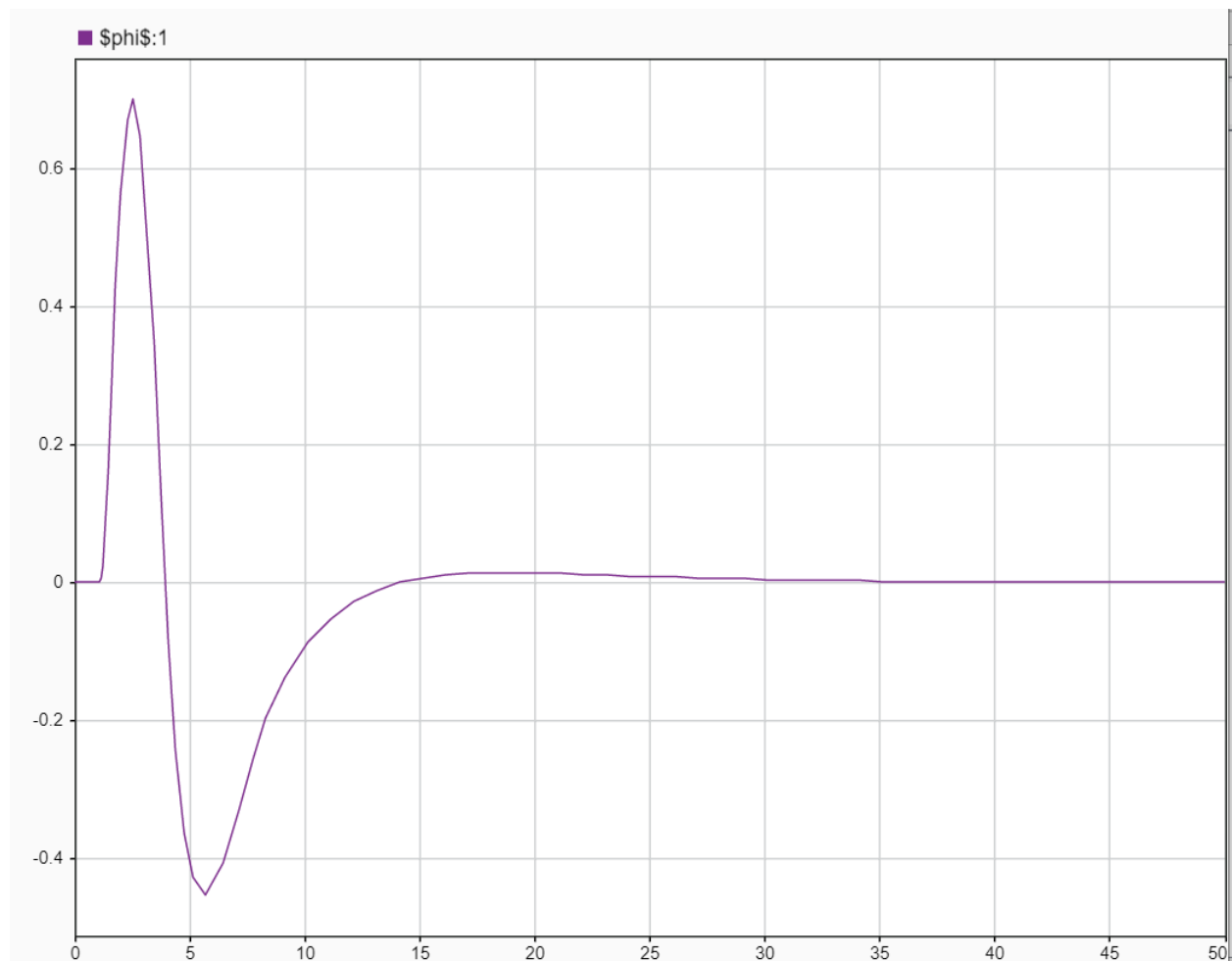


Question 5:

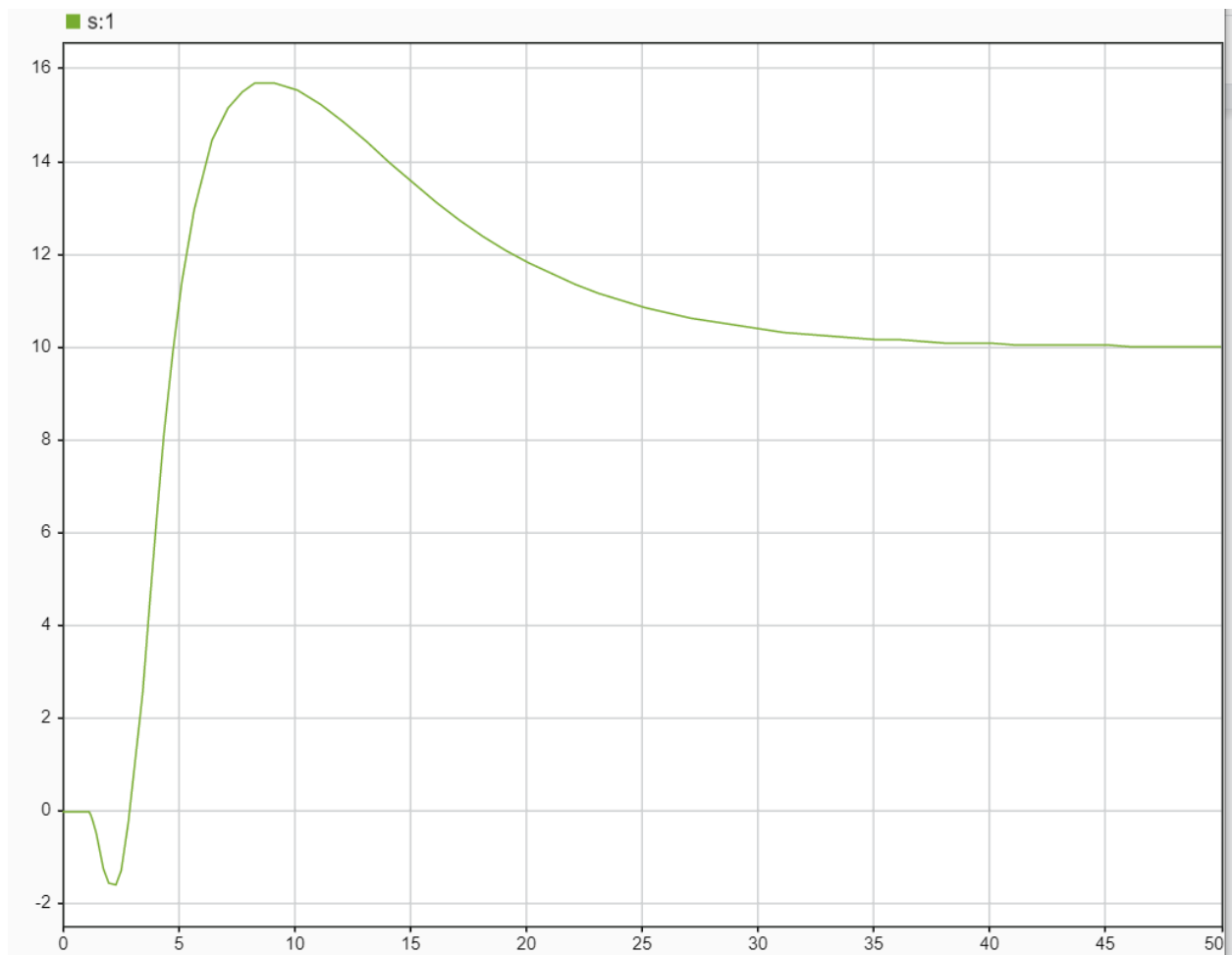
Input:



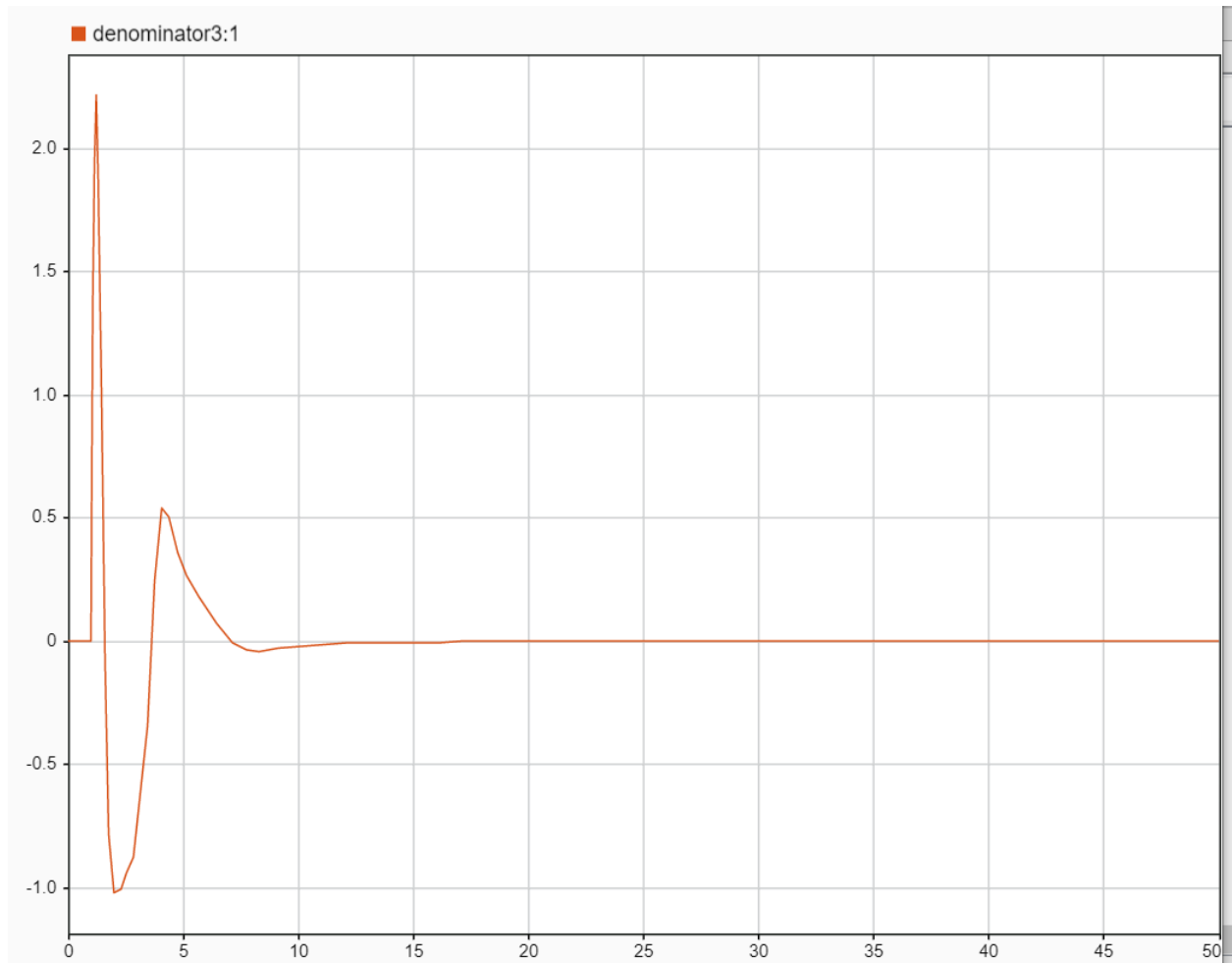
Phi:



S_bar:



Phi_dot:



S_bar_dot:

