

BATCH 4

511832 K.SAI ASHISH

511805 B.VAMSI KRISHNA

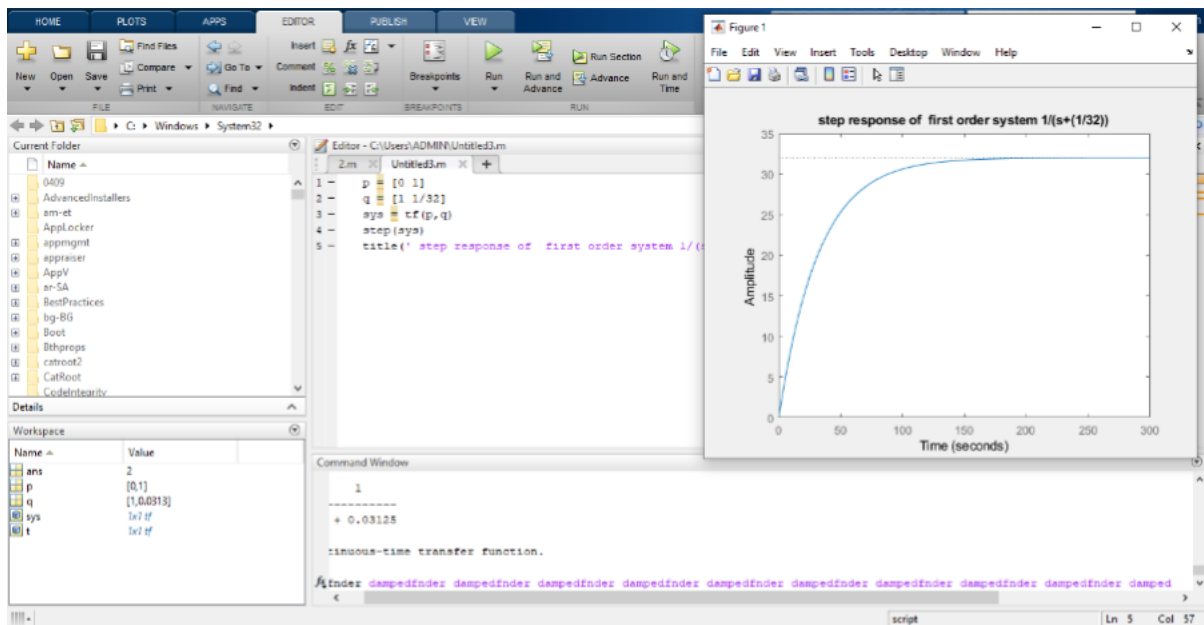
511817 CH.TARAK NAGARJUNA KUMAR

511856 P.RATNA PRAKASH

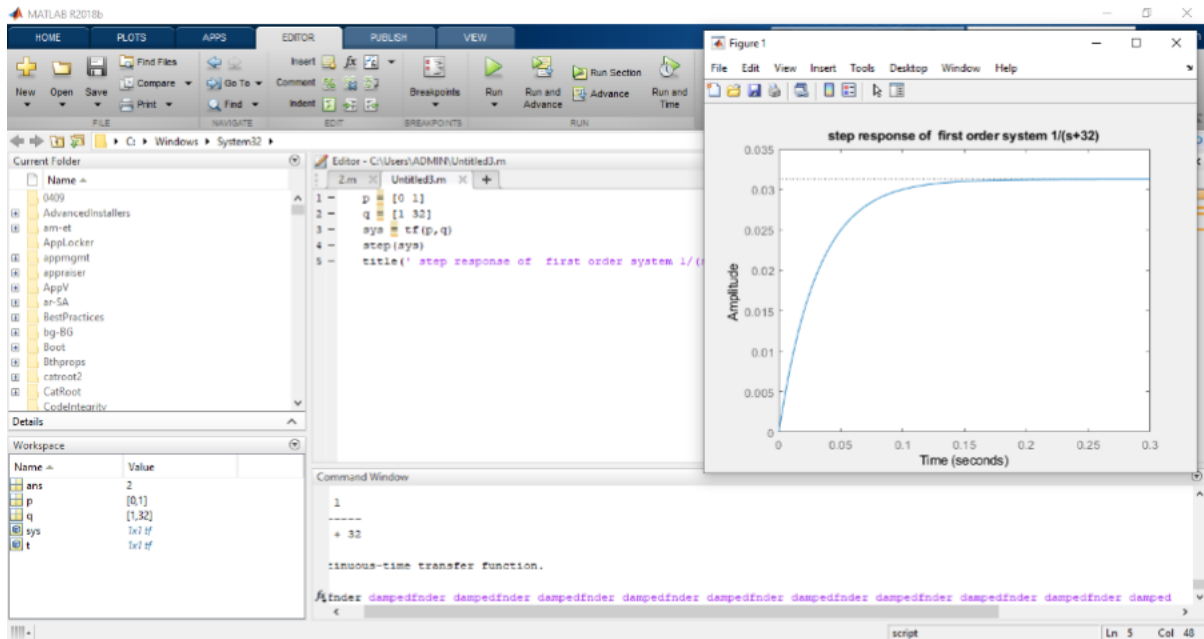
511869 S.GIREESH KUMAR

TIME RESPONSE OF FIRST ORDER AND SECOND ORDER SYSTEM

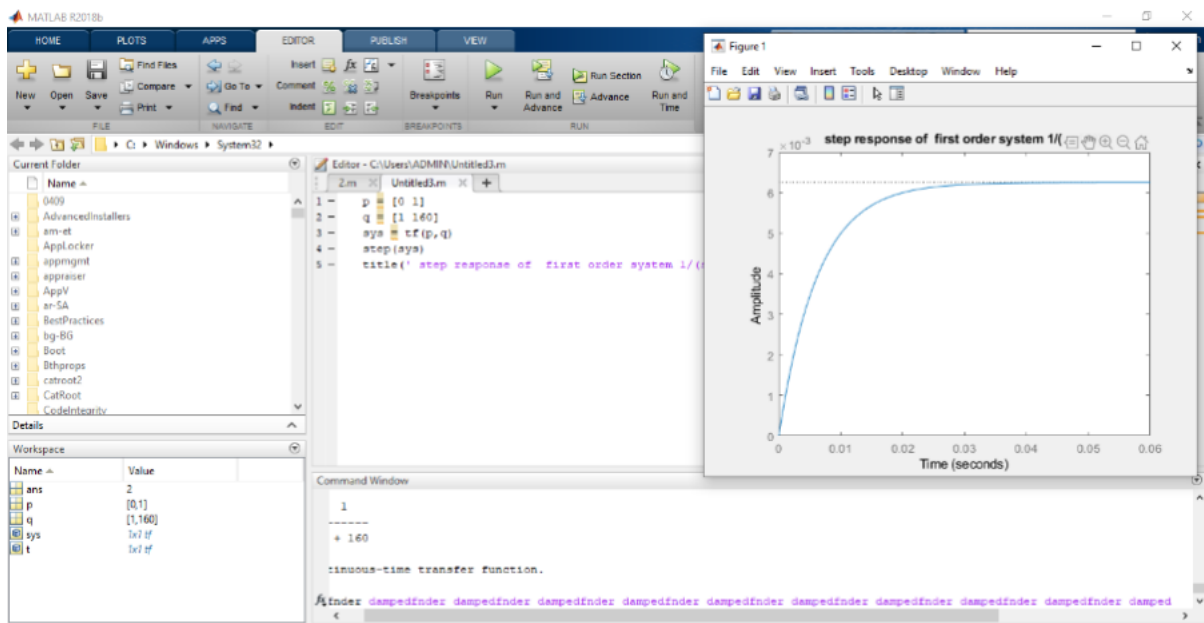
FOR FIRST ORDER STEP INPUT :



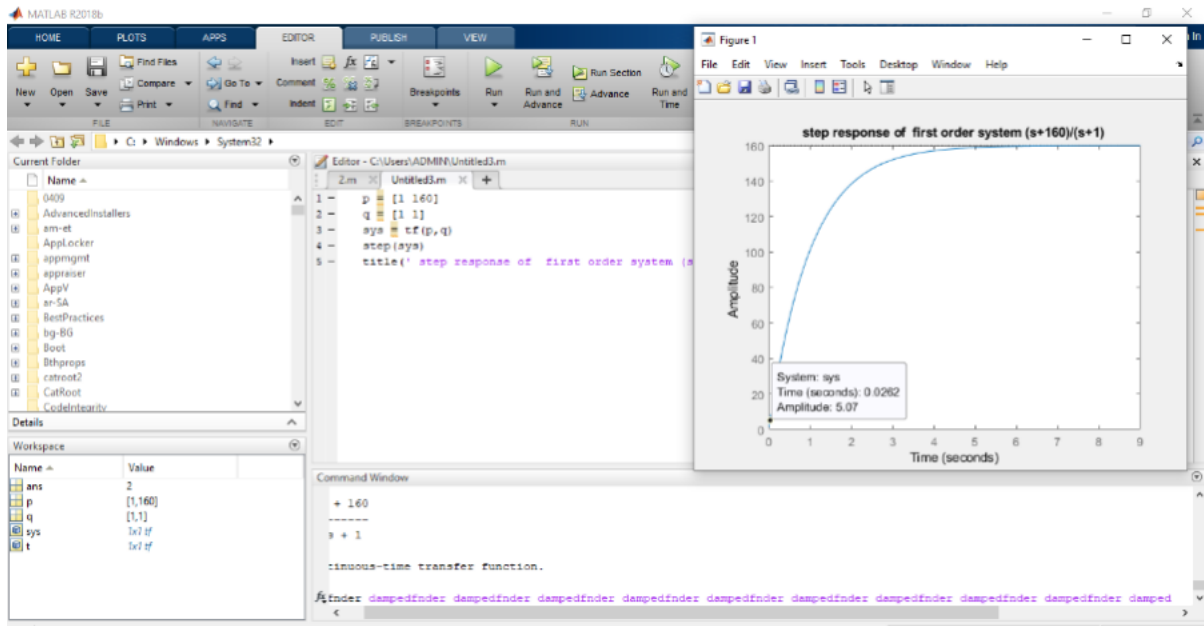
POLE AT -32



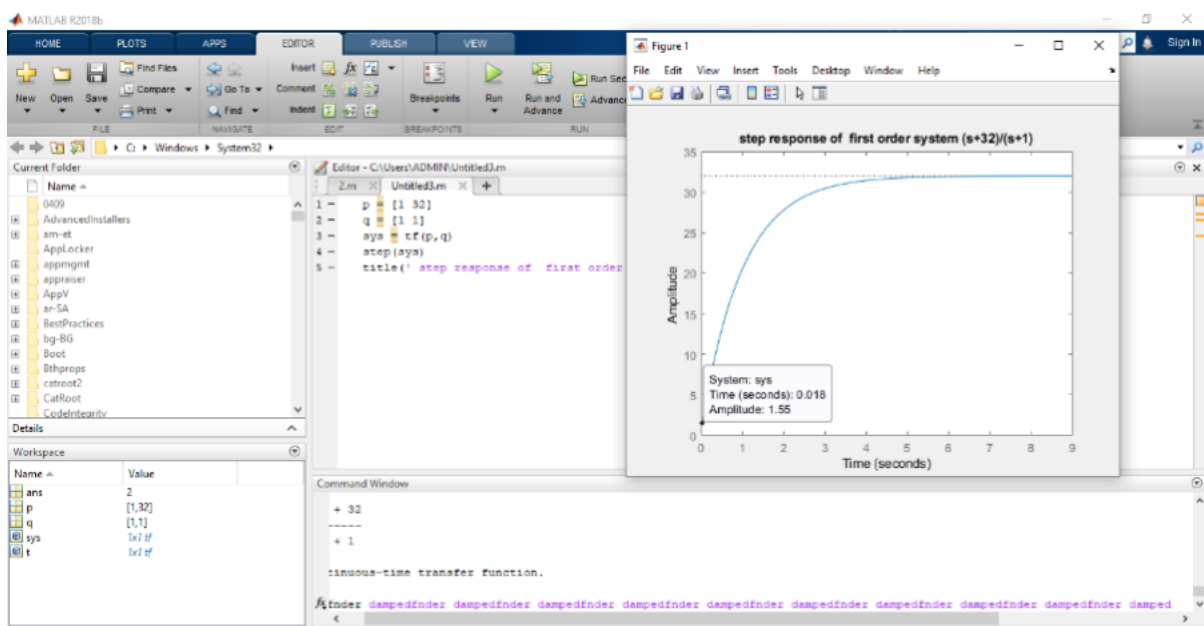
FOR POLE AT -160



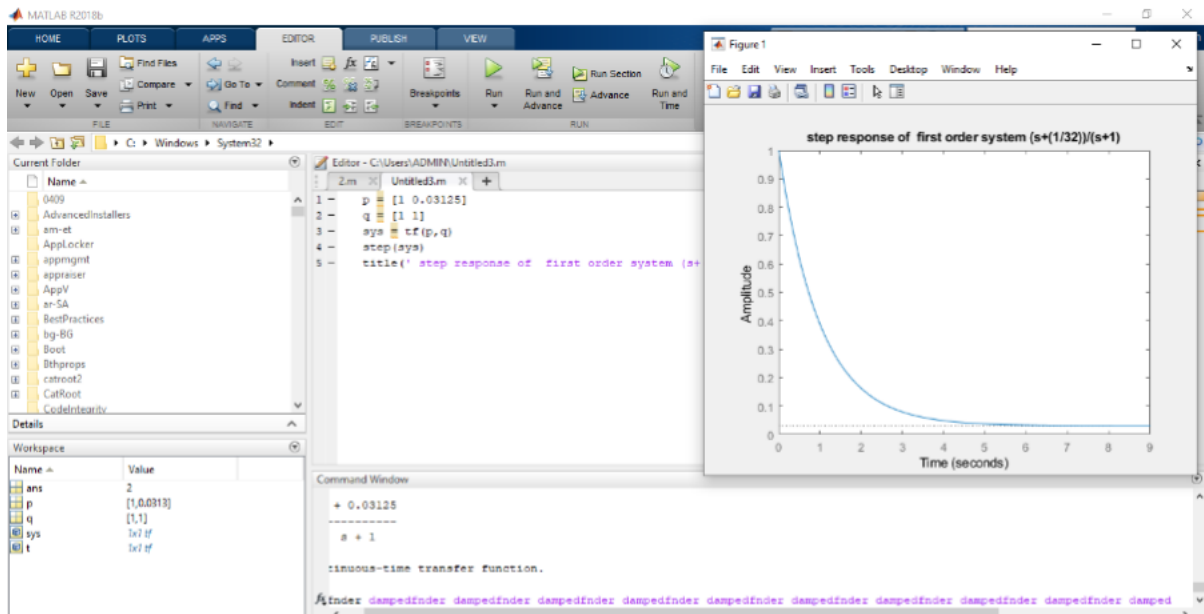
FOR POLE AT -1, ZERO AT -160



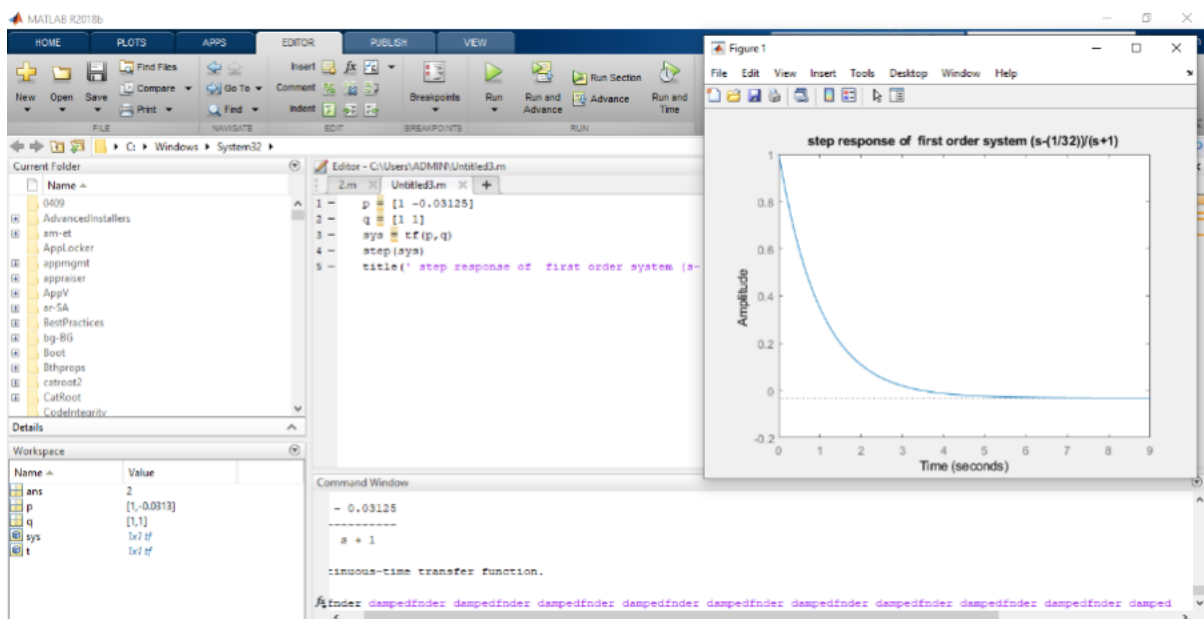
FOR POLE AT -1 , ZERO AT -32



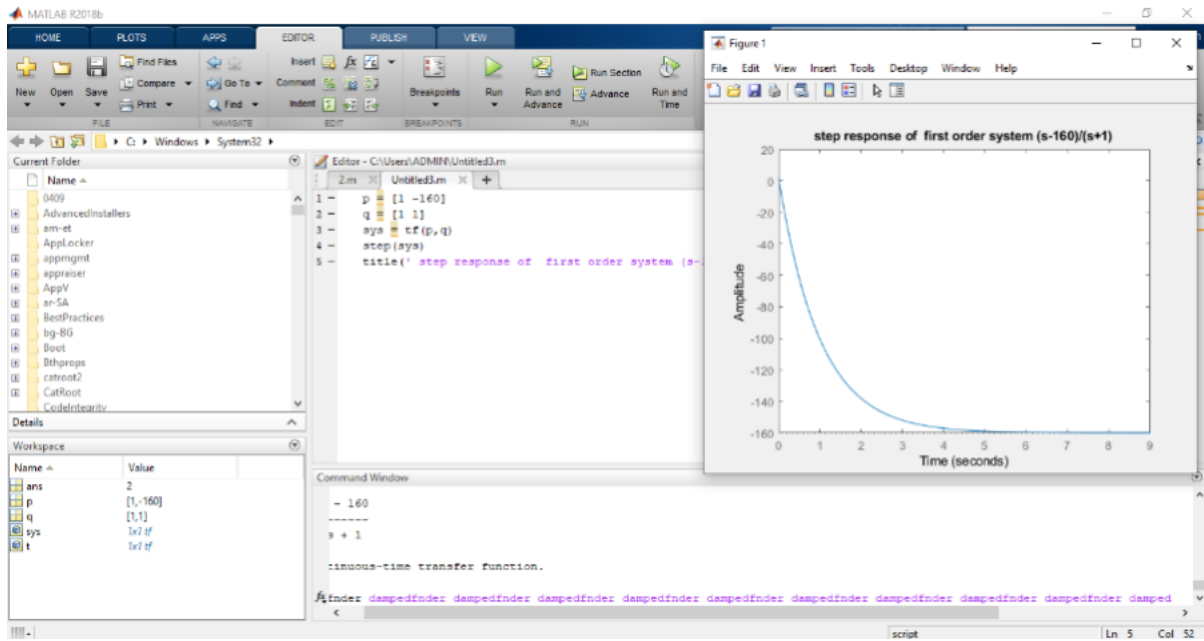
FOR POLE AT -1 , ZERO AT -1/32



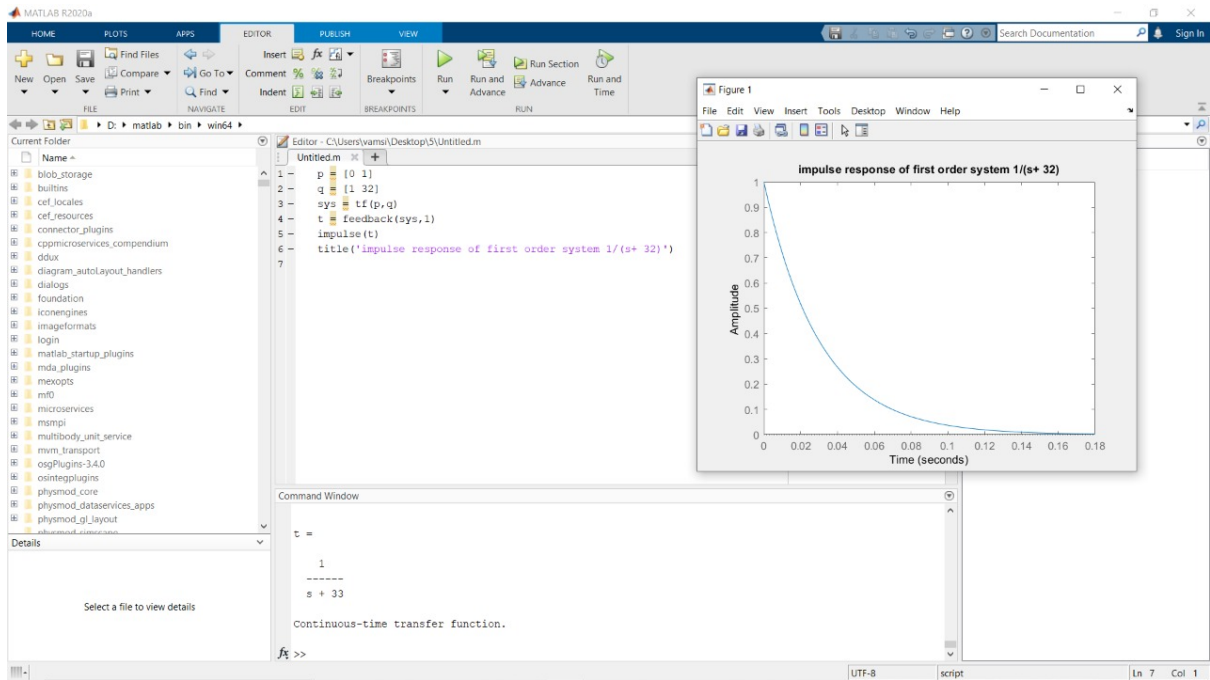
FOR POLE AT -1 , ZERO AT 1/32



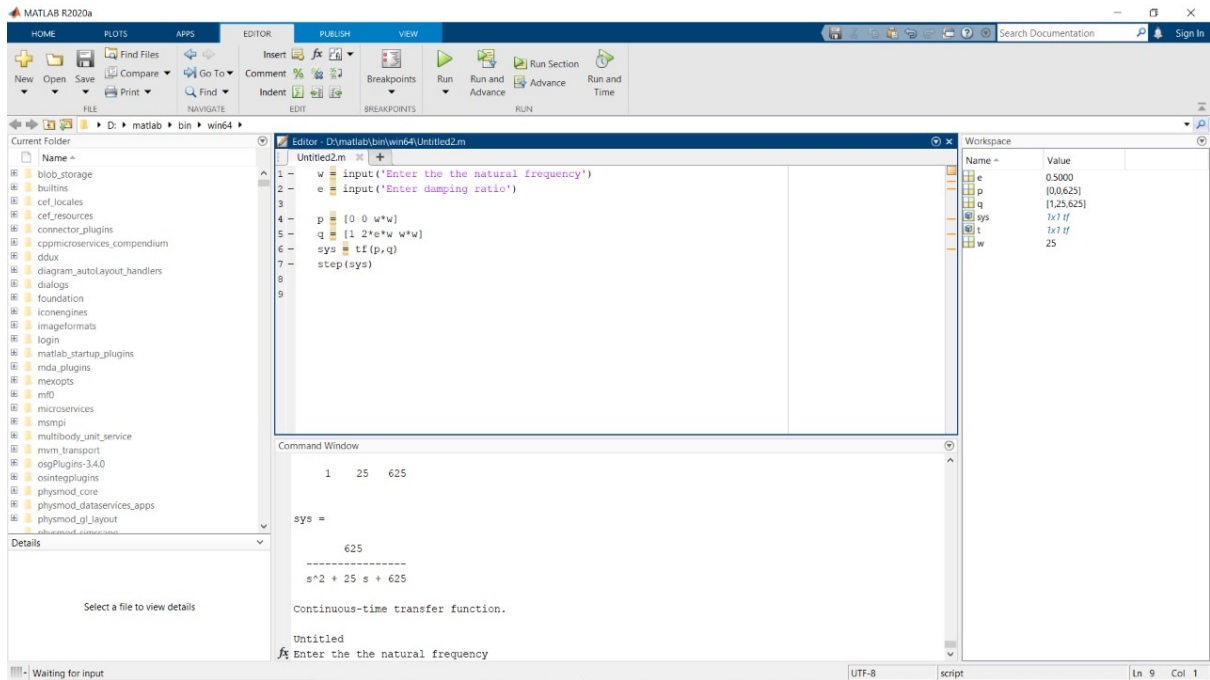
FOR POLE AT -1 , ZERO AT 160



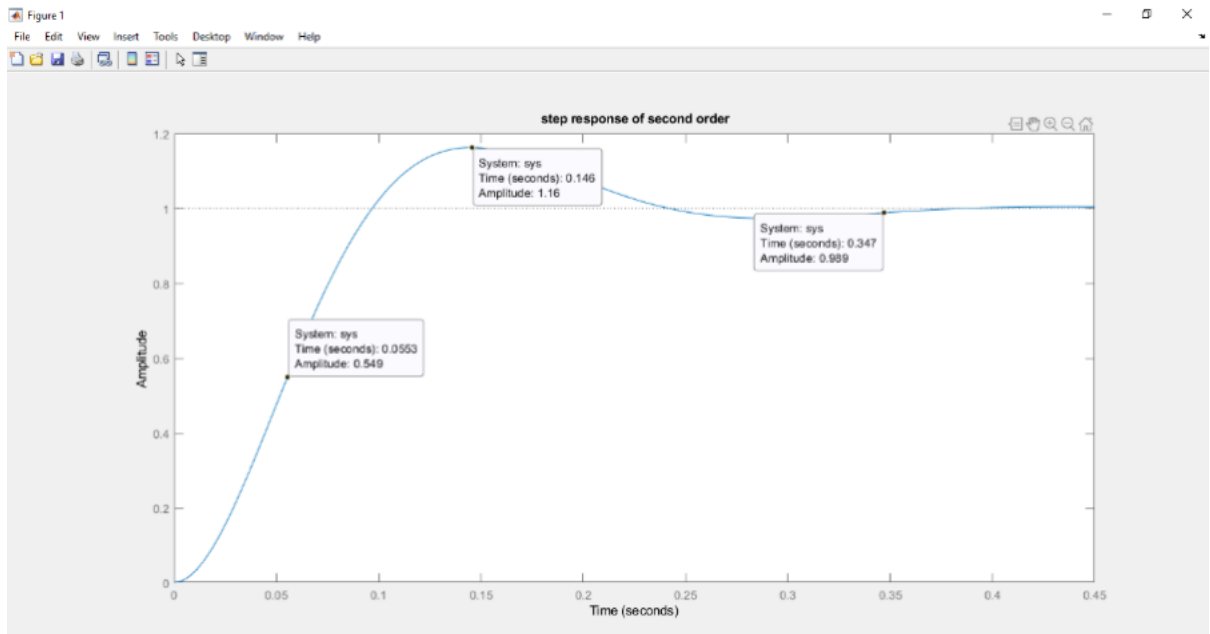
FOR FIRST ORDER UNIT IMPULSE SYSTEM:



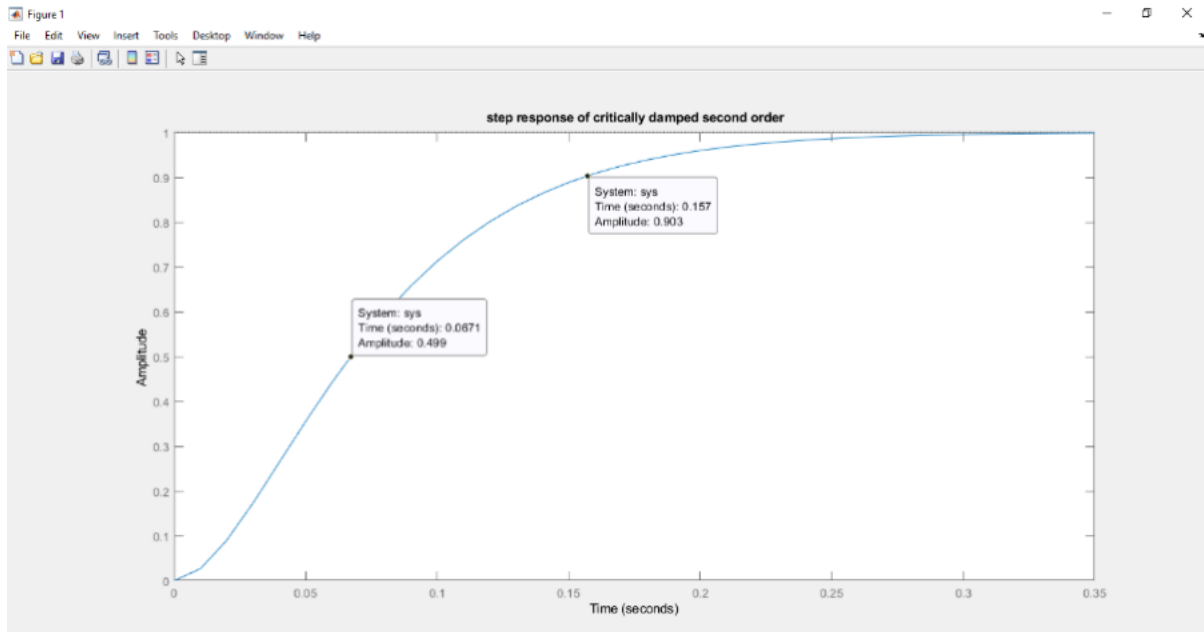
FOR SECOND ORDER SYSTEM:



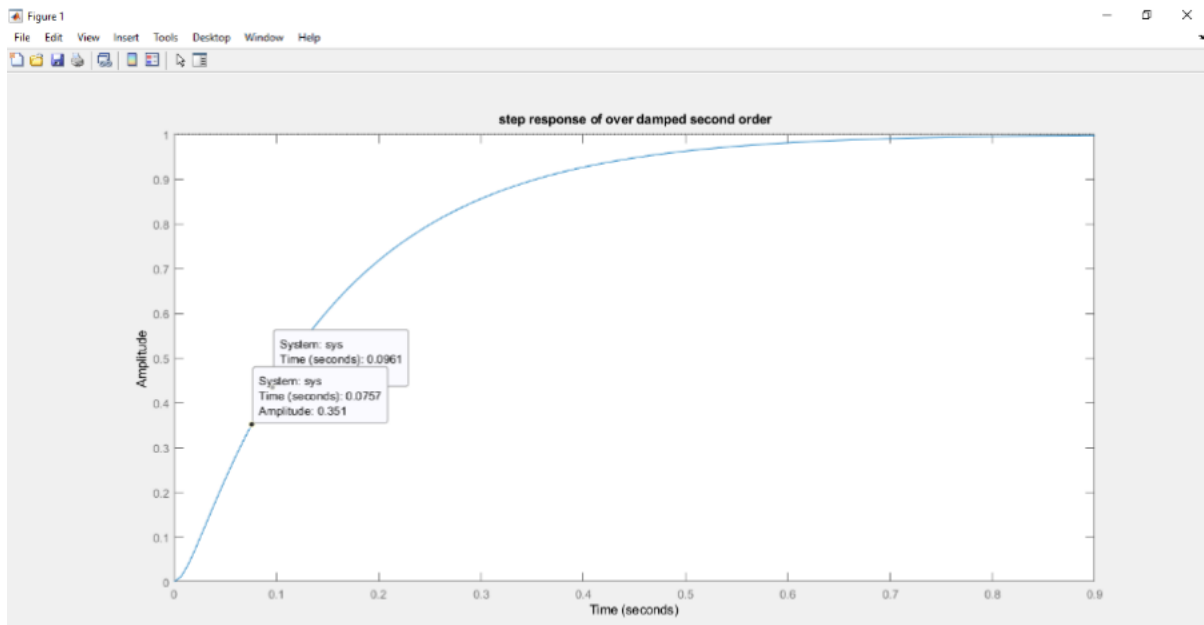
FOR UNDER DAMPED SECOND ORDER SYSTEM:



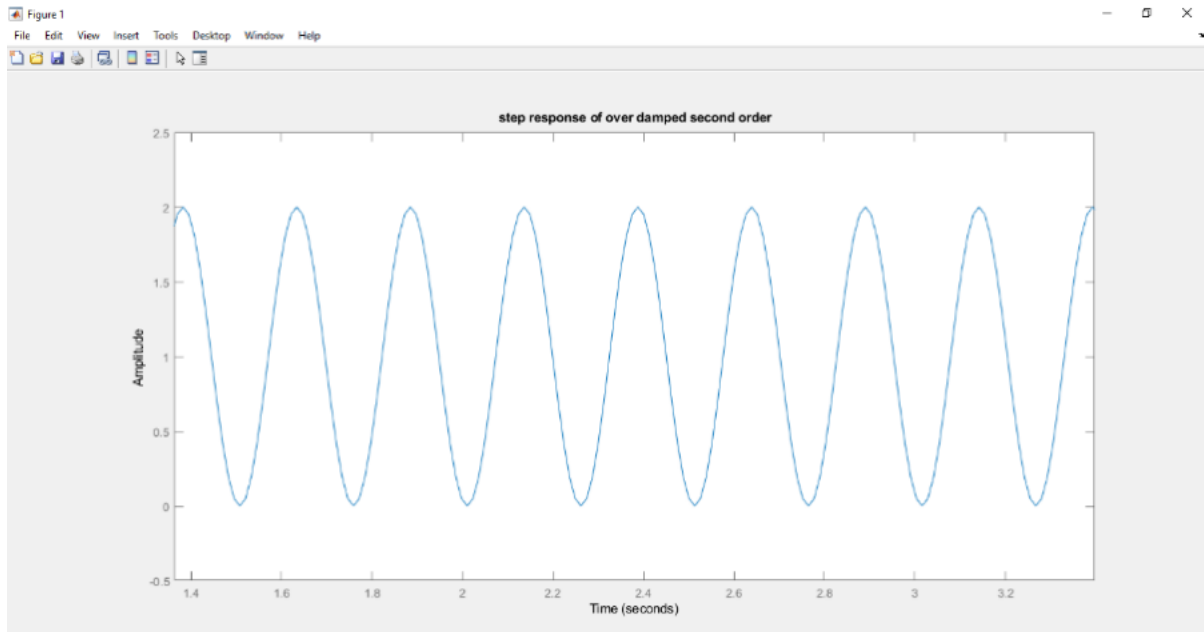
FOR CRITICALLY DAMPED SYSTEM:



FOR OVER DAMPED SYSTEM;

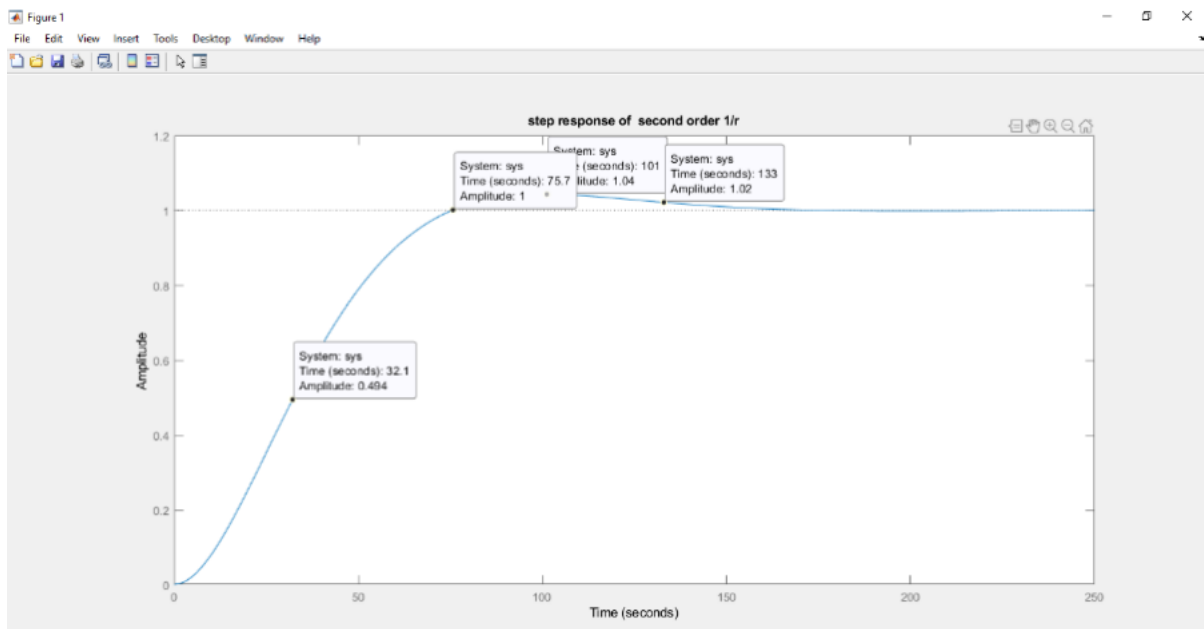


FOR UNDAMPED SYSTEM:

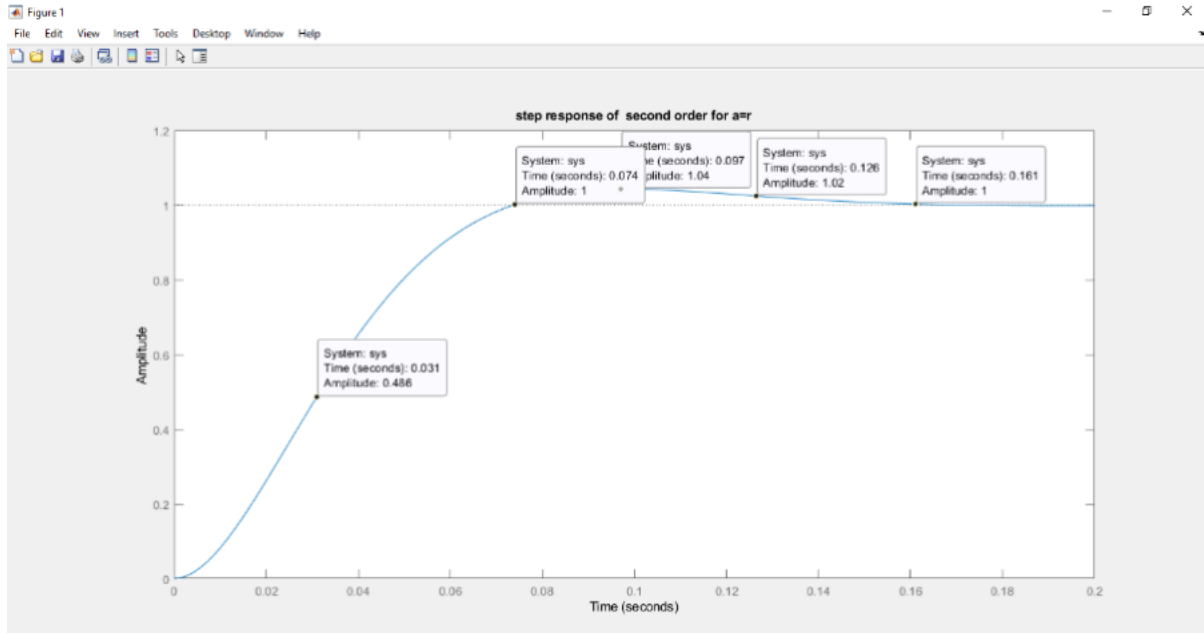


FOR SECOND ORDER POLE PAIRS $(-a+ai), (-a-ai)$

FOR $a=1/R=1/32$:



FOR $a=R=32$



FOR $a=5R=160$

