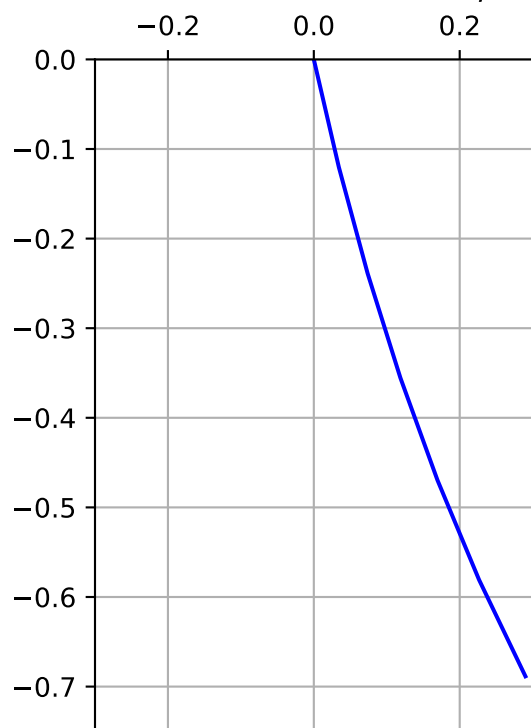
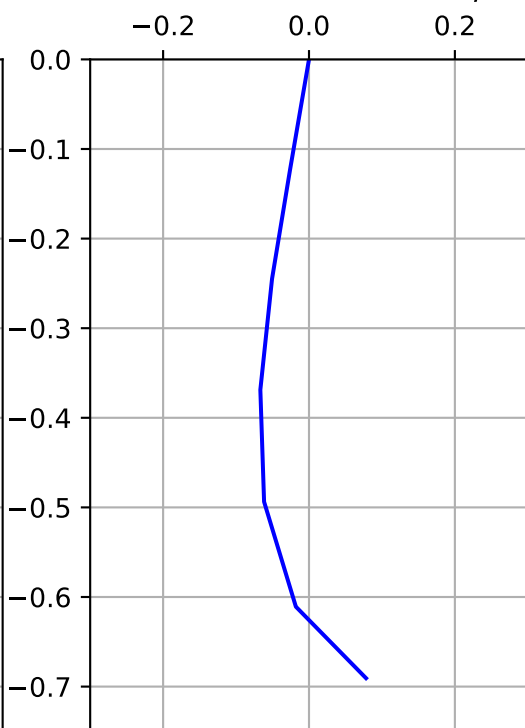


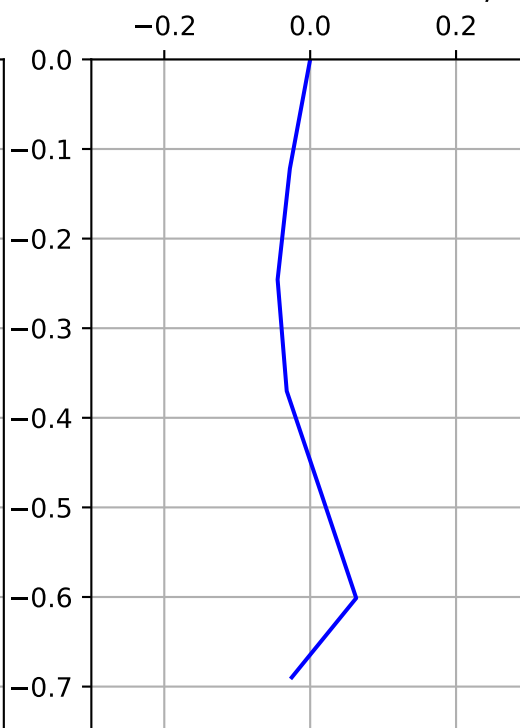
Mode 1 -  $\omega = 4.18$  rad/s



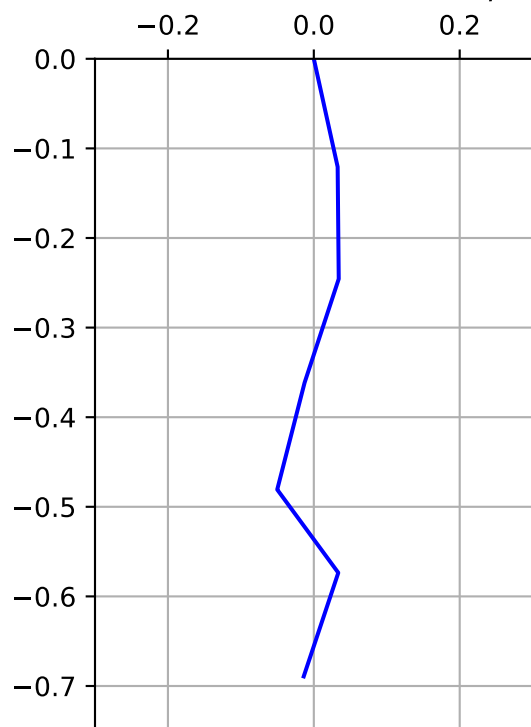
Mode 2 -  $\omega = 9.66$  rad/s



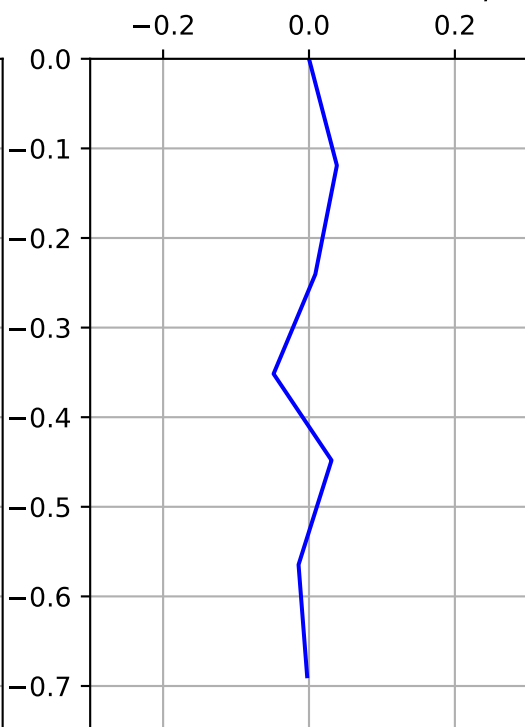
Mode 3 -  $\omega = 15.33$  rad/s



Mode 4 -  $\omega = 21.29$  rad/s



Mode 5 -  $\omega = 27.79$  rad/s



Mode 6 -  $\omega = 35.42$  rad/s

