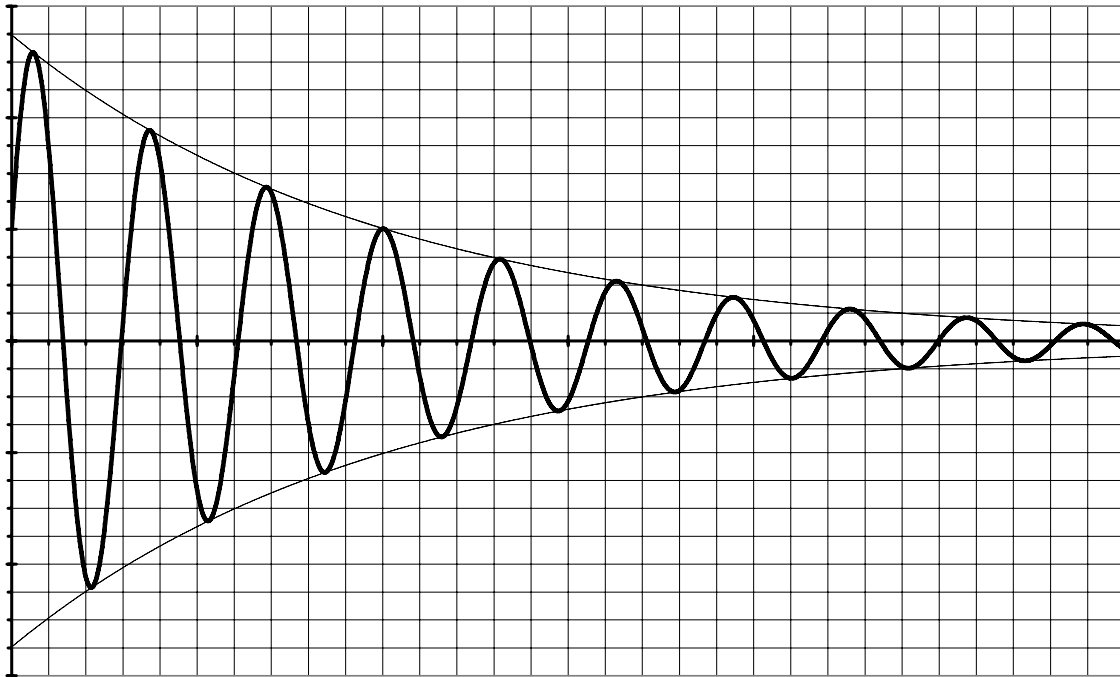
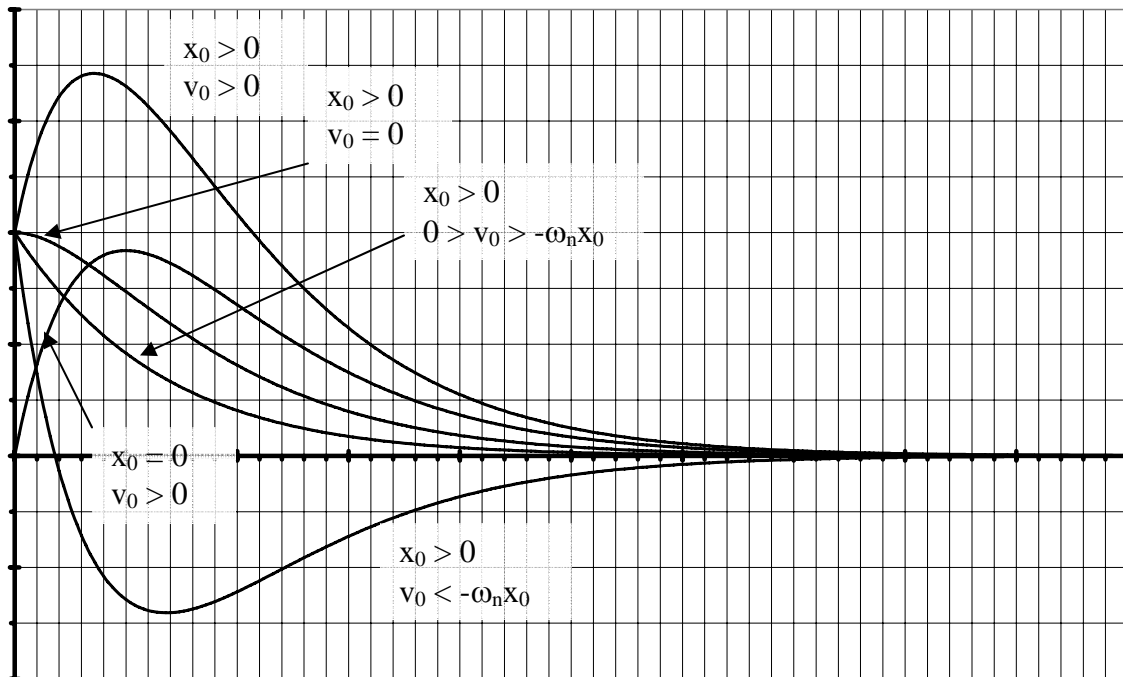


Free Response of Single Degree of Freedom Systems

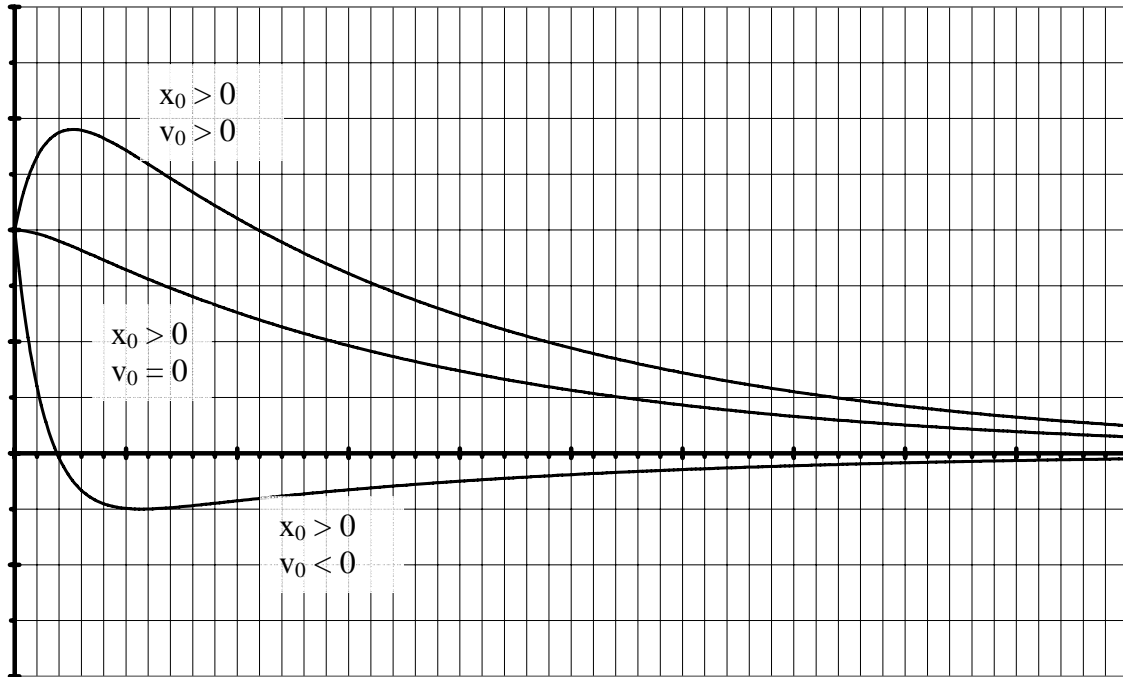
Underdamped Free Response ($\zeta < 1$)



Critically Damped Free Response ($\zeta = 1$)



Overdamped Free Response ($\zeta > 1$)



Same ω_n Different Damping, Same Initial Conditions

