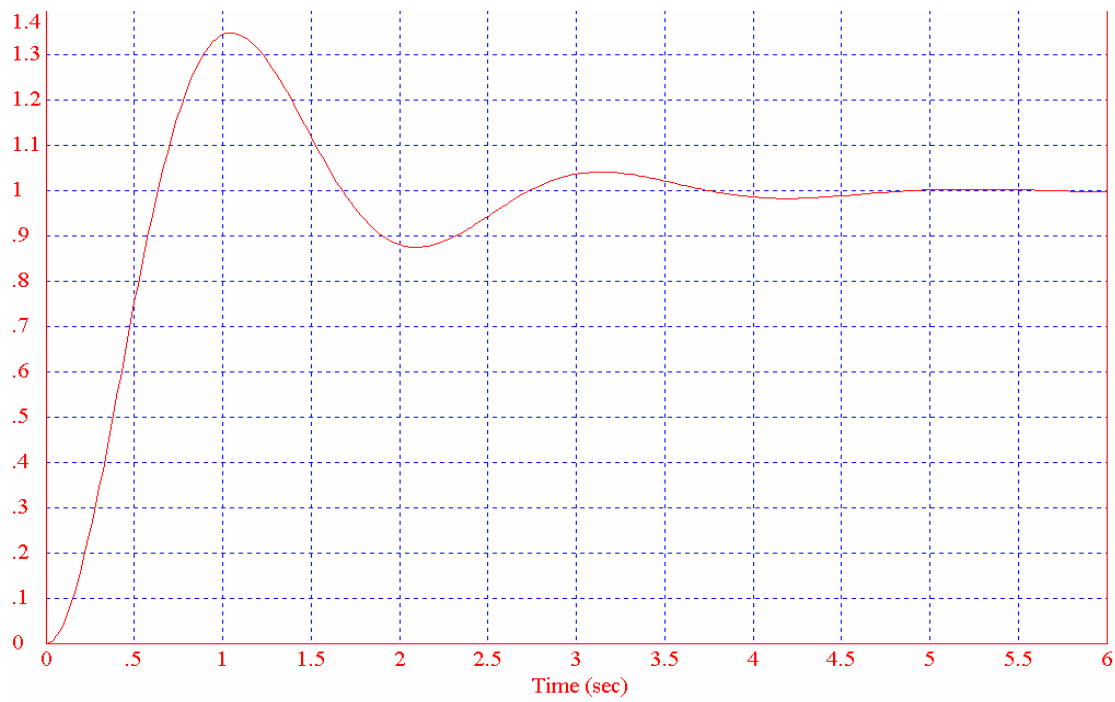
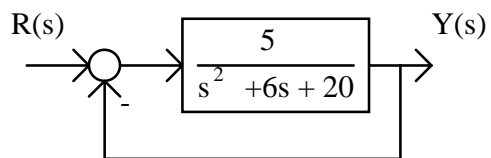


Given response of a prototype second order system to a unit-step function (fig.2). Identify a transfer function of this system.



For given system



sketch the unit step response without mathematically solving for the time response , if $r(t) = 1(t)$