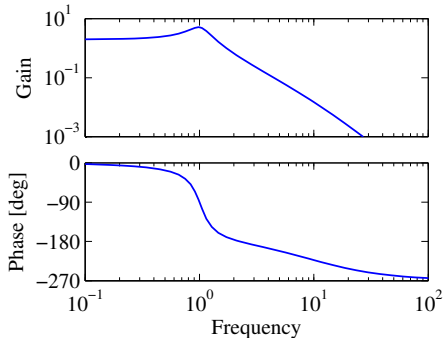


(a) Step response



(b) Frequency response

**Figure 3.4:** Input/output response of a linear system. The step response (a) shows the output of the system due to an input that changes from 0 to 1 at time  $t = 5$  s. The frequency response (b) shows the amplitude gain and phase change due to a sinusoidal input at different frequencies.