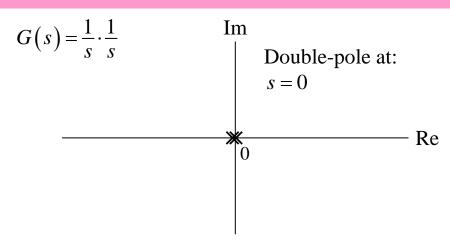
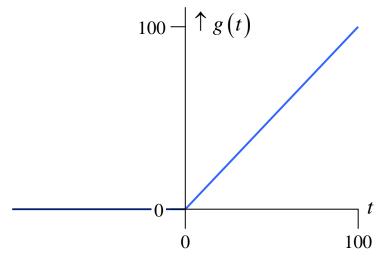
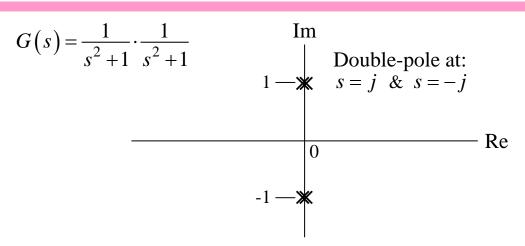
EXAMPLES: Systems with One or More Imaginary Double-Pole(s) are **UNSTABLE**



$$g(t) = \mathcal{L}^{-1} \{G(s)\}$$
$$= u(t) * u(t) = tu(t)$$





$$g(t) = \mathcal{L}^{-1} \{G(s)\}$$

$$= \sin(t)u(t) * \sin(t)u(t) = 0.5(1-t)\sin(t)u(t)$$

