

## Exercise 2: Steady-state and transient response

### 1 Ramp input to 2nd order systems

What is the steady state,  $t \rightarrow \infty$ , value of the error signal  $e(t)$  for a ramp input  $R(t) = t$ , for the second order system shown below? Qualitatively, what is the trade-off with the transient response to a step function input?

