When doing laplace like HW3, how are we able to ignore IC's like $sX(s) - x(0)$ etc.

$\boxed{\tau = \frac{1}{\zeta \omega_n}}$ $\tau = \frac{1}{s_{root}}$

$\tau = \frac{1}{|Re(s)|}$ $\frac{t}{\tau} = 1: 37\%$ $2: 13.5\%$, $3: 5\%$

- what to know about τ that's not on EQN sheet
- physical analog of a step response — what does the plot actually represent