TOOL: A pole location in the *s*-domain corresponds to a specific exponential function in the *t*-domain.

$$\frac{1}{s+a} \xrightarrow{\;\mathcal{L}^{-1}\;} e^{-at}$$

TOOL: A pole location repeated *n* times in the *s*-domain corresponds to $t^{n-1}/(n-1)!$ times a specific exponential function in the *t*-domain.

$$\frac{1}{(s+a)^{n}} \xrightarrow{\;\mathcal{L}^{-1}\;} \frac{t^{n-1}}{(n-1)!}\cdot e^{-at}$$

PICT: The diagram below shows *t*-domain waveforms versus pole positions in the *s*-domain.