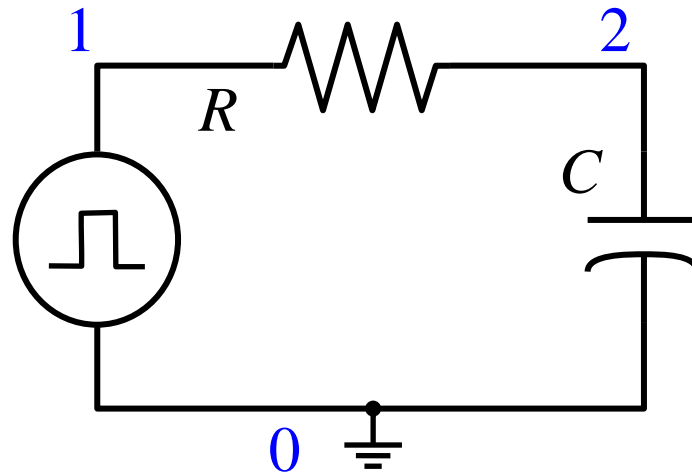


# RC Circuit

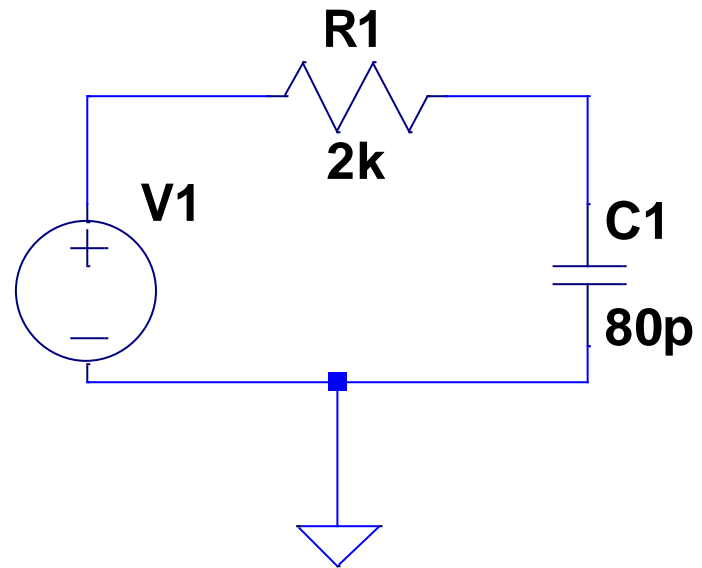


See Baker text [fig 1.24](#)

# LTSPICE wmf file

**.tran 10u**

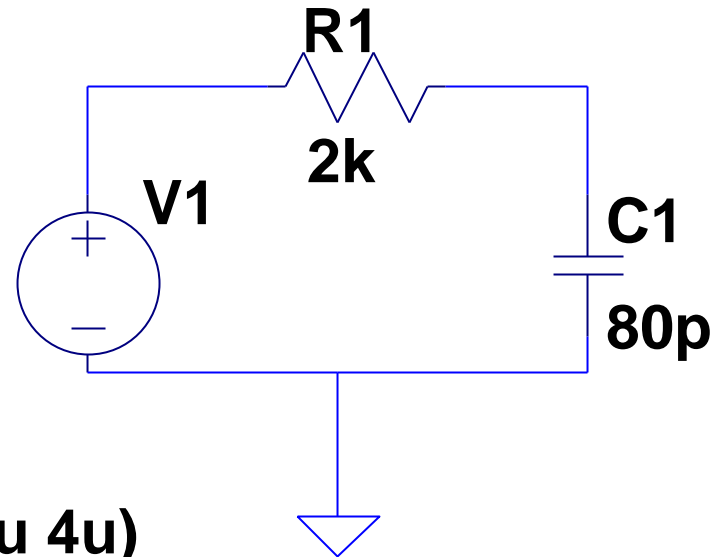
**PULSE(0 5 1u 10n 10n 2u 4u)**



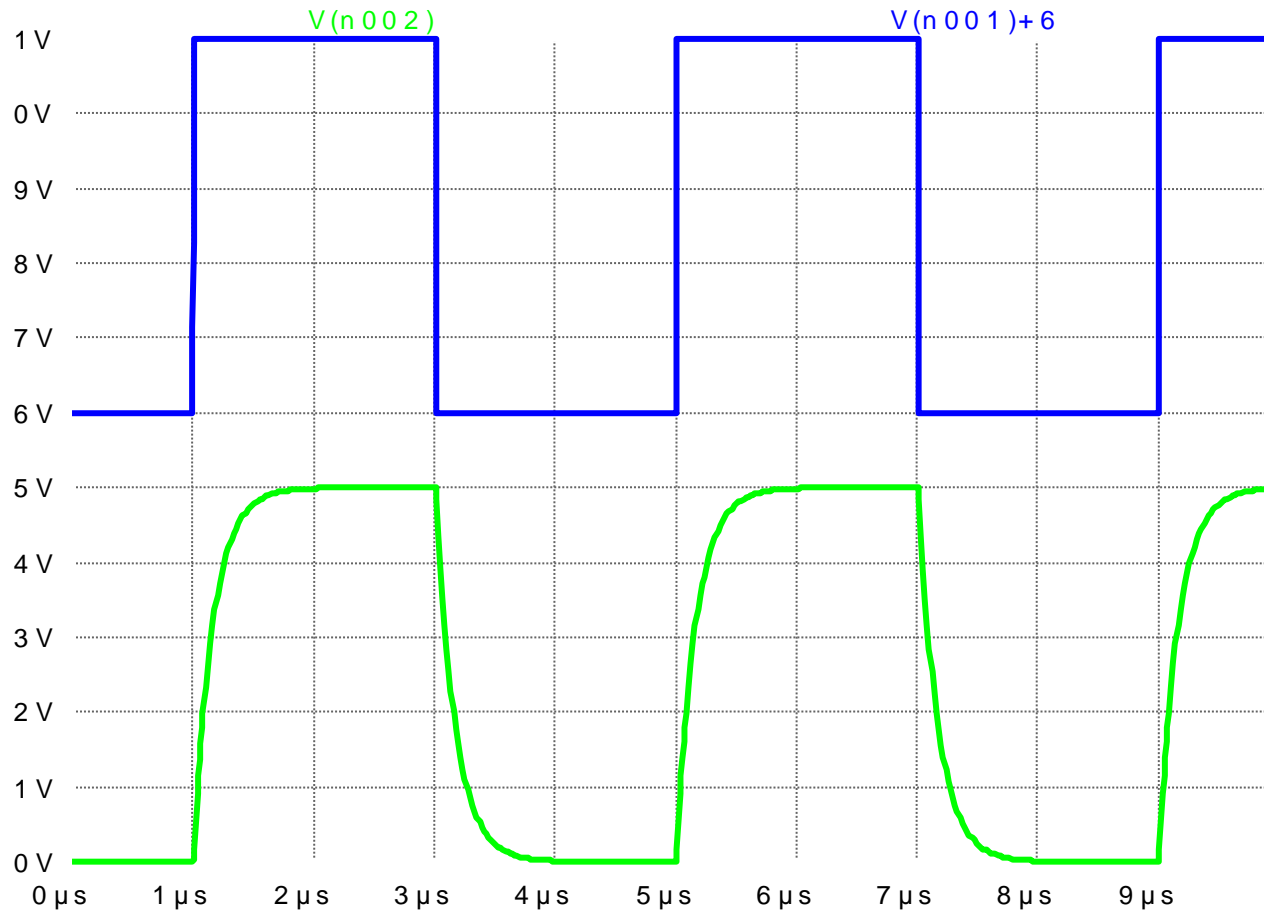
# Wmf converted to drawing object

**.tran 10u**

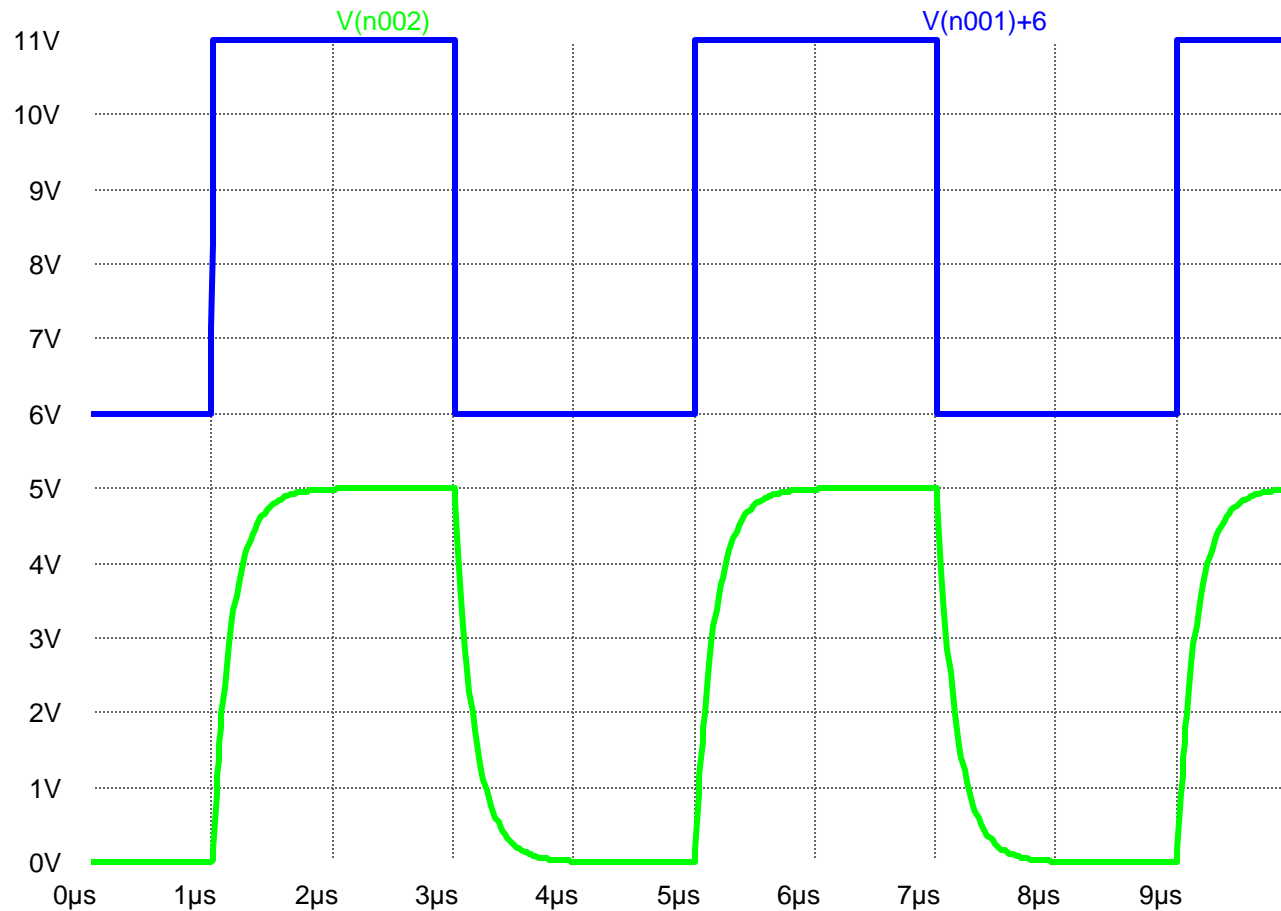
**PULSE(0 5 1u 10n 10n 2u 4u)**



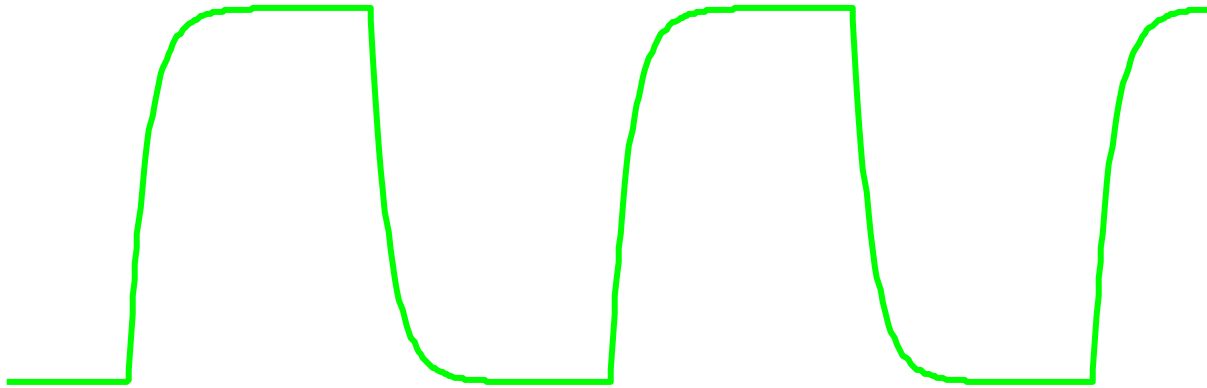
# Plot window (wmf)



# Plot Window (drawing object)



# Extracted waveform from drawing object



# Measurement Script Results

\* C:\ece531\spice1\edge.mout

fall=3.51612e-007 FROM 3.03215e-006 TO 3.38376e-006

rise=3.51743e-007 FROM 1.02197e-006 TO 1.37371e-006

\* C:\ece531\spice1\edge.mout

fall=351.6n FROM 3u TO 3.38u

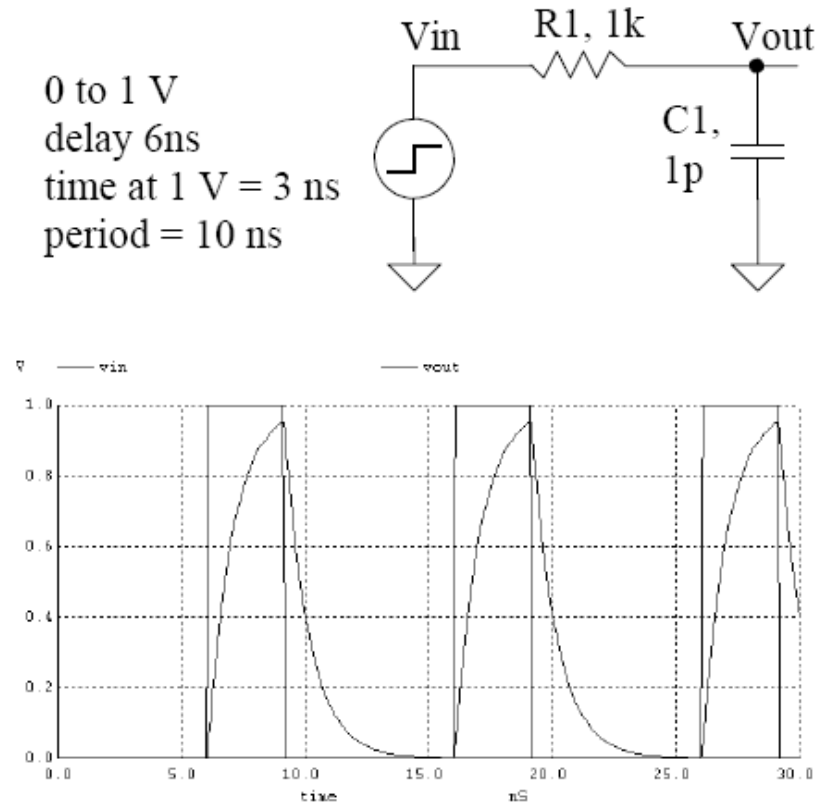
rise=351.7n FROM 1.02197e-006 TO 1.37371e-006

$$\tau = 160\text{ns}$$

$$t_{\text{fall}} = 2.2\tau$$

$$t_{\text{fall}} = 352\text{ns}$$

# Baker Figure 1.24



**Figure 1.24** Simulating the step response of an RC circuit using a pulsed source voltage.

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