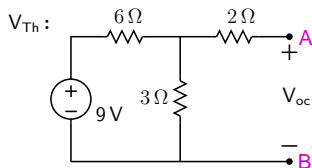
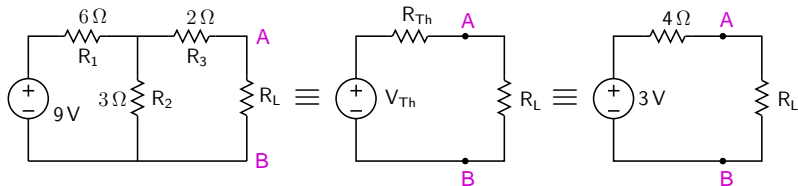
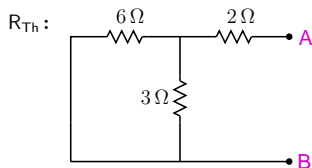


Thevenin's theorem: example



$$\begin{aligned}V_{oc} &= 9V \times \frac{3\Omega}{6\Omega + 3\Omega} \\ &= 9V \times \frac{1}{3} = 3V\end{aligned}$$



$$\begin{aligned}R_{Th} &= (R_1 \parallel R_2) + R_3 = (3 \parallel 6) + 2 \\ &= 3 \times \left(\frac{1 \times 2}{1 + 2}\right) + 2 = 4\Omega\end{aligned}$$