Problem 3.52  Find the Thévenin equivalent circuit at terminals \((a,b)\) for the circuit in Fig. P3.52.

![Circuit for Problem 3.52](image)

**Solution:**

\[
\frac{V}{4} + \frac{V}{6} + \frac{V - 2}{3} = 4
\]

Hence, \(V = \frac{56}{9}\) V.

\(V_{\text{Th}} = V_{\text{oc}} = V - 2 = \frac{56}{9} - 2 = 4.22\) V.

Suppressing the sources:

Thévenin equivalent circuit: