Sections 2-5 and 2-6: Y–Δ and Wheatstone Bridge

Problem 2.39 Convert the circuit in Fig. P2.39(a) from a Δ to a Y configuration.

Solution:

![Figure P2.39(a)](image)

\[ R_1 = \frac{6 \times 3}{6 + 3 + 1} = 1.8 \, \Omega \]

\[ R_2 = \frac{6 \times 1}{10} = 0.6 \, \Omega \]

\[ R_3 = \frac{3 \times 1}{10} = 0.3 \, \Omega. \]