

80. (a) $R_{\text{eq}}(AB) = 20.0\,\Omega/3 = 6.67\,\Omega$ (three $20.0\,\Omega$ resistors in parallel).
(b) $R_{\text{eq}}(AC) = 20.0\,\Omega/3 = 6.67\,\Omega$ (three $20.0\,\Omega$ resistors in parallel).
(c) $R_{\text{eq}}(BC) = 0$ (as B and C are connected by a conducting wire).