63. Since $R_{\text{eq}} < R$, the two resistors ($R = 12.0\,\Omega$ and R_x) must be connected in parallel:

$$R_{\text{eq}} = 3.00\,\Omega = \frac{R_x R}{R + R_x} = \frac{R_x(12.0\,\Omega)}{12.0\,\Omega + R_x} \ .$$

We solve for R_x: $R_x = R_{\text{eq}}R/(R - R_{\text{eq}}) = (3.00\,\Omega)(12.0\,\Omega)/(12.0\,\Omega - 3.00\,\Omega) = 4.00\,\Omega$.