

$$b) R_{eq} = 35 \Omega$$

Combine 2 50Ω as in part a to get 25Ω

Combine 2 20Ω to get 10Ω

$$\frac{1}{R_p} = \frac{1}{R_3} + \frac{1}{R_4}$$

$$R_p^{-1} = (20\Omega)^{-1} + (20\Omega)^{-1}$$

$$R_p = 10\Omega \quad (\text{Put } R_3 \text{ \& } R_4 \text{ in parallel})$$

Combine R_{12} with R_{34} to get 35Ω

$$R_s = R_{12} + R_{34}$$

$$= 25\Omega + 10\Omega$$

$$R_s = 35\Omega \quad (\text{Put } R_{12} \text{ \& } R_{34} \text{ in series})$$

