

2) $R_{eq} = 45 \Omega$

Combine 2 50Ω to get 25Ω

$$\frac{1}{R_p} = \frac{1}{R_1} + \frac{1}{R_2}$$

$$R_p^{-1} = (50\Omega)^{-1} + (50\Omega)^{-1}$$

$$R_p = 25 \Omega \quad (\text{Put } R_1 \text{ \& } R_2 \text{ in parallel})$$

Combine R_{12} with a 20Ω to get 45Ω

$$R_s = R_{12} + R_3$$

$$= 25 \Omega + 20 \Omega$$

$$R_s = 45 \Omega \quad (\text{Put } R_{12} \text{ \& } R_3 \text{ in series})$$

