a) \[ V_{R1} = V_{R2} \] - They are connected in parallel.

b) \[ V_{R1} = V_{R2} \] - They are connected in parallel.

c) \[ V_{R1} = V_{R2} \] - Connected in parallel.

d) \[ V_{R1} = V_{R2} \] - Connected in parallel.

28/109 0 2Ω 150V \[ V_p = 100V \]
\[ V_x = V_p + 1.25 \cdot 150V \] (being CCW)

Find \( i \) from Kirchhoff going completely around:
\[ +2Ω \cdot (-150 + 3Ω)i + 5Ω = 0 \]
\[ \Rightarrow i = \frac{-100V - 20A}{-5Ω} \]
\[ \therefore \ V_x = 100V + (20A)(2Ω) - 150V = -10V. \]

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\[ 4Ω \quad 2.5Ω \]
\[ 2\text{ Parallel} 4Ω \Rightarrow \]
\[ \frac{1}{R_{eq}} = \frac{1}{4Ω} + \frac{1}{2.5Ω} = \frac{3}{10Ω} \Rightarrow R_{eq} = 2.5Ω \]

This is in series with 2.5Ω
\[ \Rightarrow R_{eq} = 2.5Ω + 2.5Ω = 5Ω. \]