In the circuit shown: (a) What is the current in the 3 Ω resistor? (b) What is the current in the 6 Ω resistor?

\[ \frac{1}{R_p} = \frac{1}{3} + \frac{1}{6} = \frac{1}{2} \]

\[ v = I (R_1 + R_2) \]

\[ 36 = I \times 6 \]

\[ I = 6 \text{ A} \]

Voltage across 2Ω = \( 2 \times 6 = 12 \text{ V} \)

\[ I_{3\Omega} = \frac{12}{3} = 4 \text{ A} \]

\[ I_{6\Omega} = \frac{12}{6} = 2 \text{ A} \]