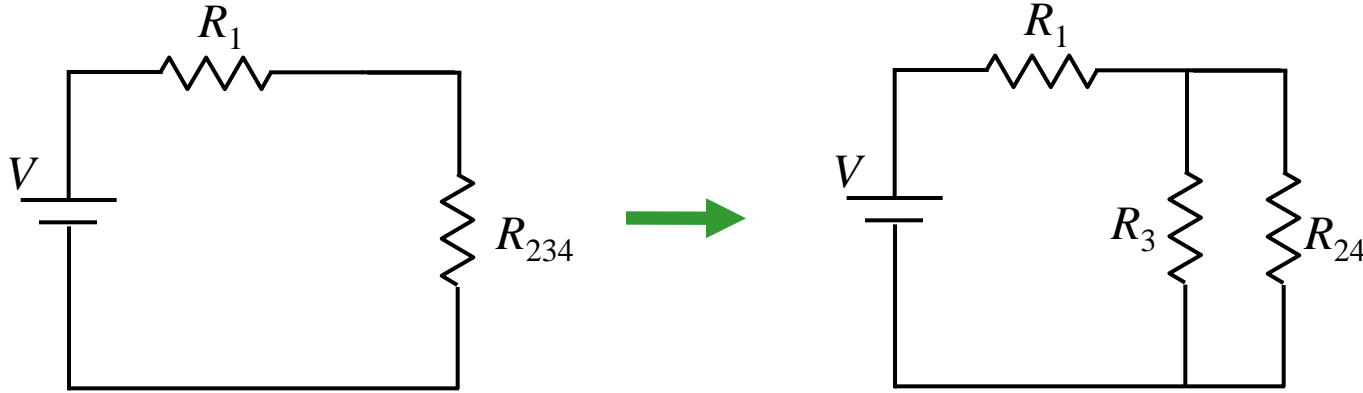# *Calculation*

$$V = 18V$$
$$R_1 = 1\Omega$$
$$R_2 = 2\Omega$$
$$R_3 = 3\Omega$$
$$R_4 = 4\Omega$$
$$R_{24} = 6\Omega$$
$$R_{234} = 2\Omega$$
$$I_{1234} = 6 \text{ Amps}$$
$$I_{234} = 6 \text{ Amps}$$
$$V_{234} = 12V$$

What is V_2?

Which of the following are true?

A) $V_{234} = V_{24}$ B) $I_{234} = I_{24}$ C) Both A+B D) None

R_3 and R_{24} were combined in parallel to get R_{234} ➡ Voltages are same!

Ohm's Law

$$I_{24} = V_{24} / R_{24}$$
$$= 12 / 6$$
$$= 2 \text{ Amps}$$