

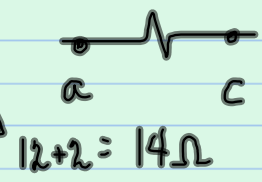
V + I for each R

a-b
 ① $R_{eq} = 8 + 4 = 12\Omega$
 series



b-c
 ② parallel

$\frac{1}{R_{eq}} = \frac{1}{6} + \frac{1}{3} = \frac{3}{6}$
 $R_{eq} = 2\Omega$



③ R_{eq}

④ find I_{total}
 $V = IR$
 $I = \frac{V}{R} = \frac{42}{14} = 3A$

⑤ $V_8 = IR = 3(8) = 24V$

$V_4 = 3(4) = 12V$

⑥ $42 - 24 - 12 = 6V$ — parallel voltage

$I_6 = \frac{V}{R} = \frac{6}{6} = 1A$

$I_3 = \frac{6}{3} = 2A$