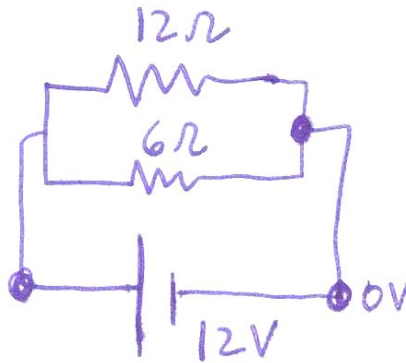
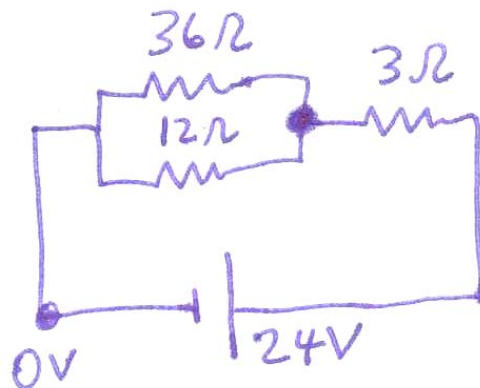


Determine the currents in the following circuits, and construct the $R - I - \Delta V - P$ table for each circuit. Check that the powers are correct. Also, determine the electric potentials at the points marked.



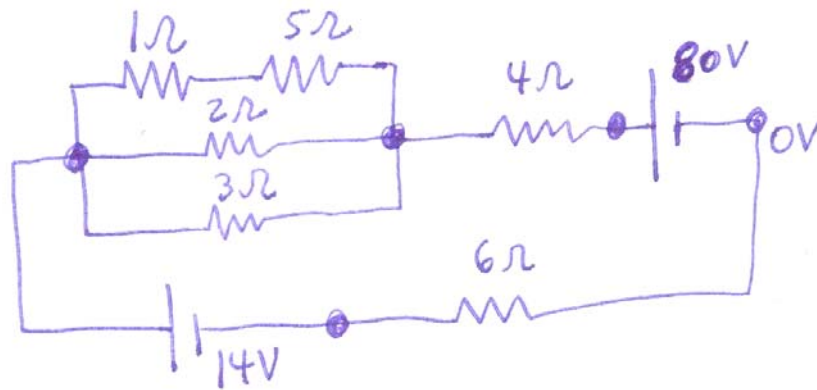
R	I	ΔV	P
$6\ \Omega$	$2\ \text{A}$	$12\ \text{V}$	$24\ \text{W}$
$12\ \Omega$	$1\ \text{A}$	$12\ \text{V}$	$12\ \text{W}$
$4\ \Omega$	$3\ \text{A}$	$12\ \text{V}$	$36\ \text{W}$

The potentials at the marked points, counterclockwise from the one marked $0\ \text{V}$, are $0\ \text{V}$, $0\ \text{V}$, and $12\ \text{V}$.



R	I	ΔV	P
$3\ \Omega$	$2\ \text{A}$	$6\ \text{V}$	$12\ \text{W}$
$12\ \Omega$	$1.5\ \text{A}$	$18\ \text{V}$	$27\ \text{W}$
$36\ \Omega$	$0.5\ \text{A}$	$18\ \text{V}$	$9\ \text{W}$
$12\ \Omega$	$2\ \text{A}$	$24\ \text{V}$	$48\ \text{W}$

The potentials at the marked points, counterclockwise from the one marked $0\ \text{V}$, are $0\ \text{V}$, $24\ \text{V}$, and $18\ \text{V}$.



R	I	ΔV	P
1 Ω	1 A	1 V	1 W
5 Ω	1 A	5 V	5 W
2 Ω	3 A	6 V	18 W
3 Ω	2 A	6 V	12 W
4 Ω	6 A	24 V	144 W
6 Ω	6 A	36 V	216 W
---	6 A	80 V	480 W
---	6 A	-14 V	-84 W

The potentials at the marked points, counterclockwise from the one marked 0 V, are 0 V, 80 V, 56 V, 50 V, and 36 V.
