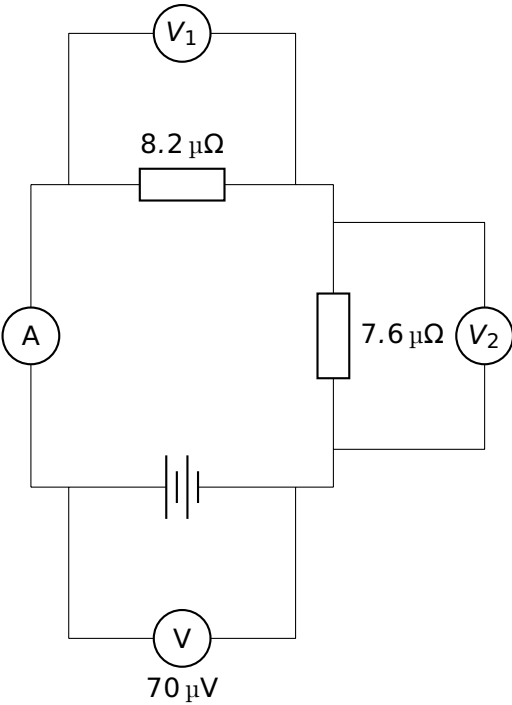
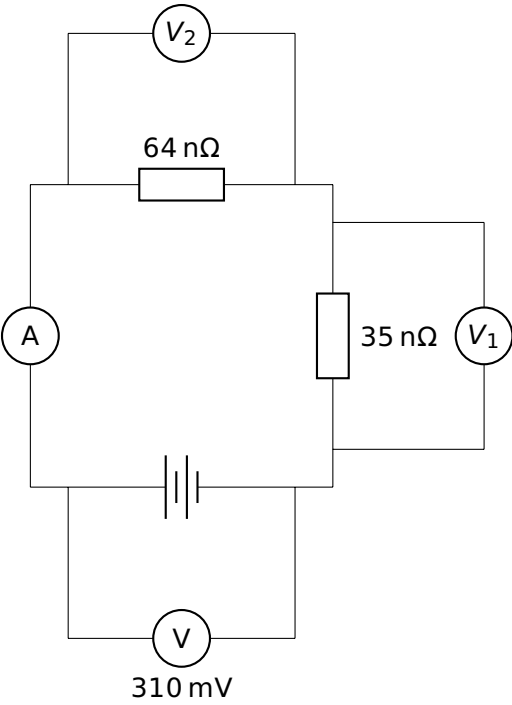


Calculate the unknown potential differences that would be read on the two voltmeters labels V_1 and V_2 ;

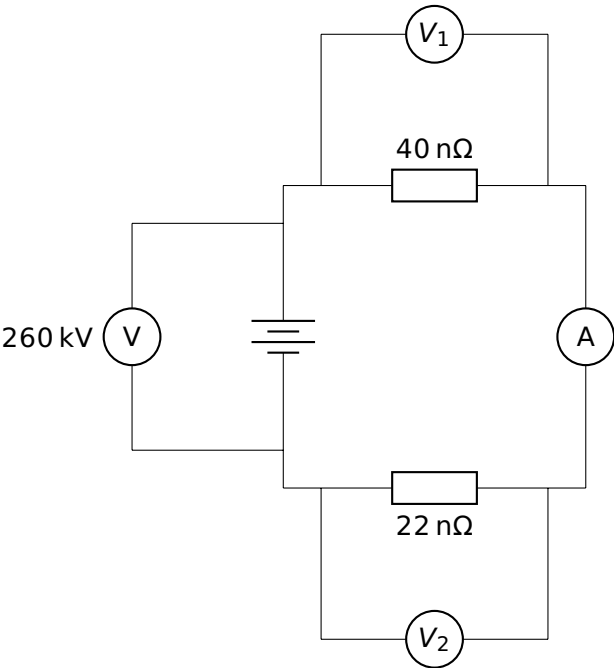
1)



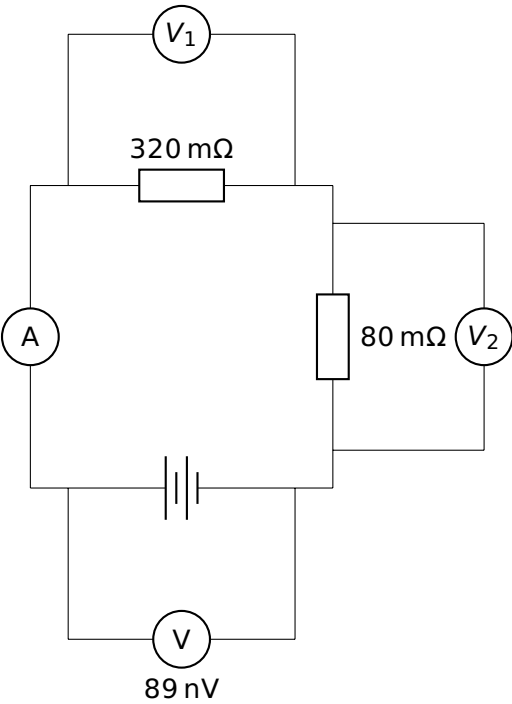
2)



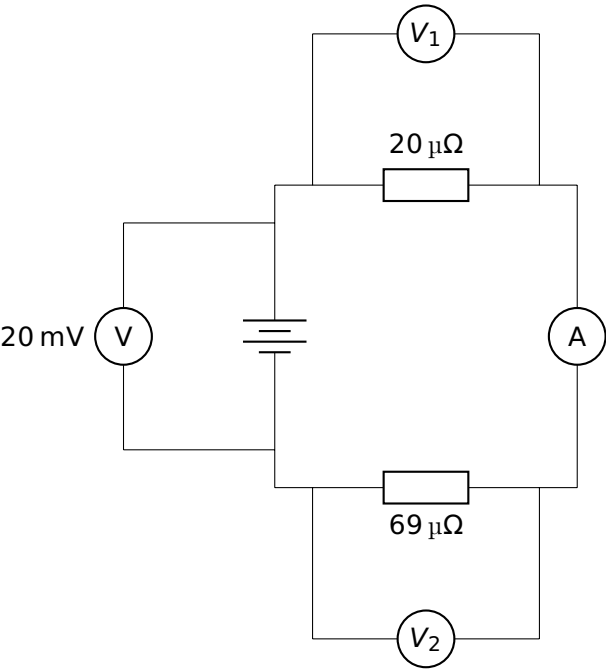
3)



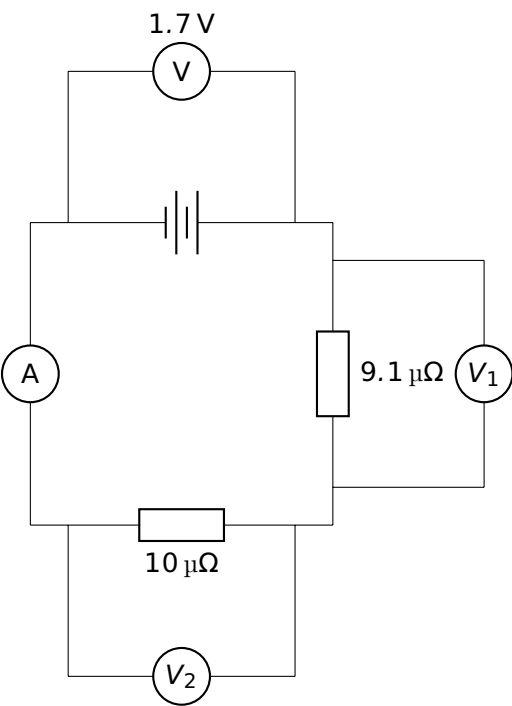
4)



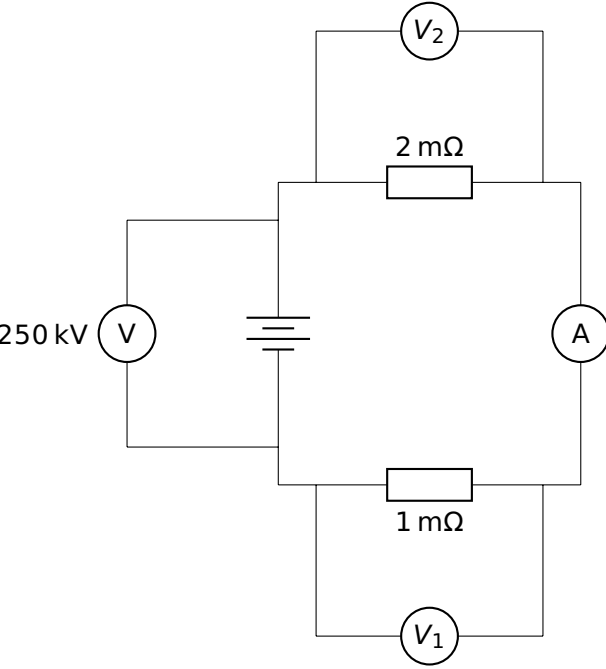
5)



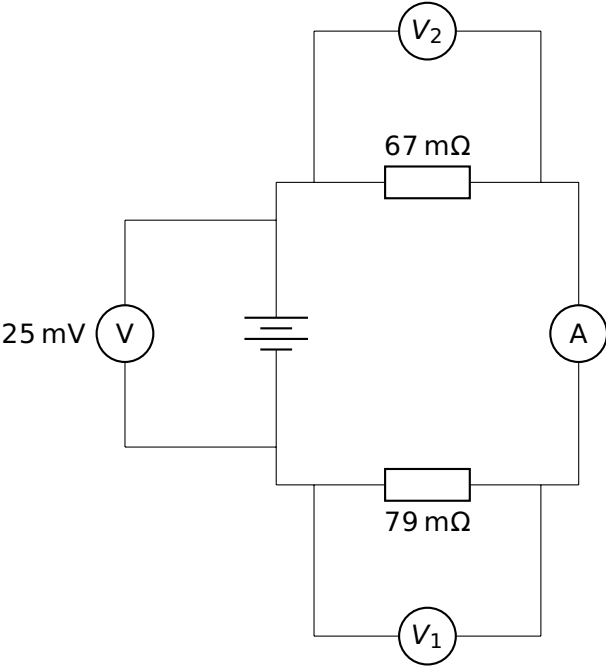
6)



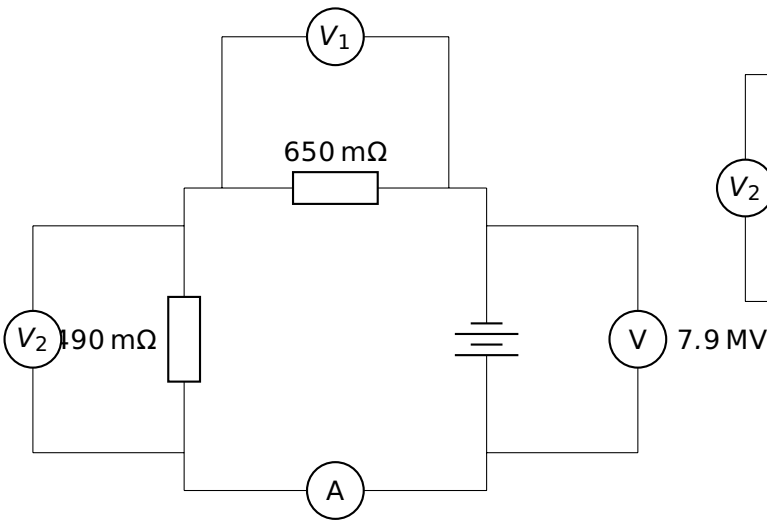
7)



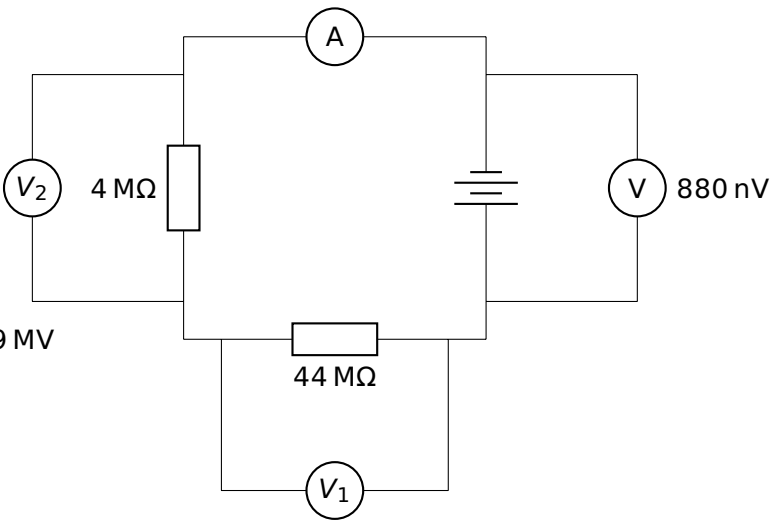
8)



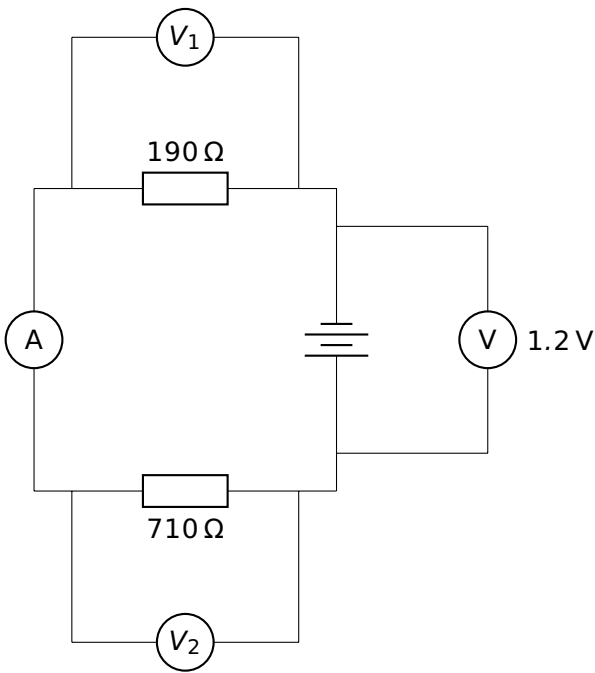
9)



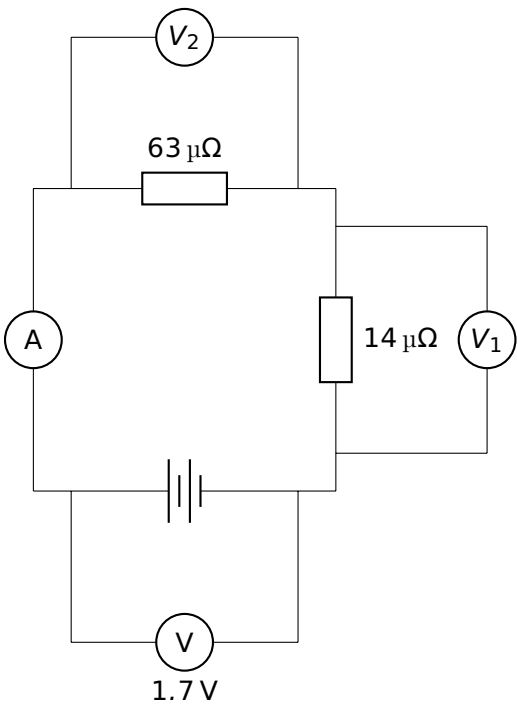
10)



11)



12)



Answers

- 1) $V_1 = 110 \text{ mV}$, $V_2 = 200 \text{ mV}$
- 2) $V_1 = 170 \text{ kV}$, $V_2 = 92 \text{ kV}$
- 3) $V_1 = 71 \text{ nV}$, $V_2 = 18 \text{ nV}$
- 4) $V_1 = 4.5 \text{ mV}$, $V_2 = 16 \text{ mV}$
- 5) $V_1 = 810 \text{ mV}$, $V_2 = 890 \text{ mV}$
- 6) $V_1 = 83 \text{ kV}$, $V_2 = 170 \text{ kV}$
- 7) $V_1 = 14 \text{ mV}$, $V_2 = 11 \text{ mV}$
- 8) $V_1 = 4.5 \text{ MV}$, $V_2 = 3.4 \text{ MV}$
- 9) $V_1 = 810 \text{ nV}$, $V_2 = 73 \text{ nV}$
- 10) $V_1 = 250 \text{ mV}$, $V_2 = 950 \text{ mV}$
- 11) $V_1 = 310 \text{ mV}$, $V_2 = 1.4 \text{ V}$