1) What are the values of the currents shown?

4V

$I_1 = ?$ (A)   (A) $I_3 = ?$

$R_1 = 4.0\Omega$ $R_2 = 3.0\Omega$

(A)

$I_2 = ?$
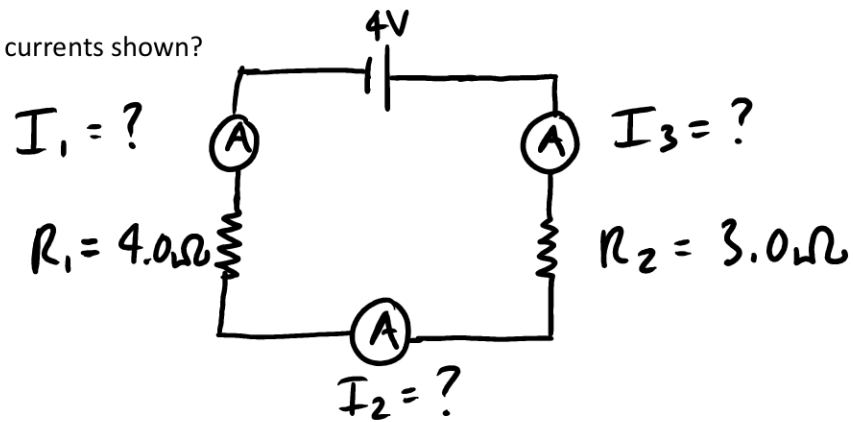
2) Find the value of R_2.

12 V

$I = 5.0A$ (A)
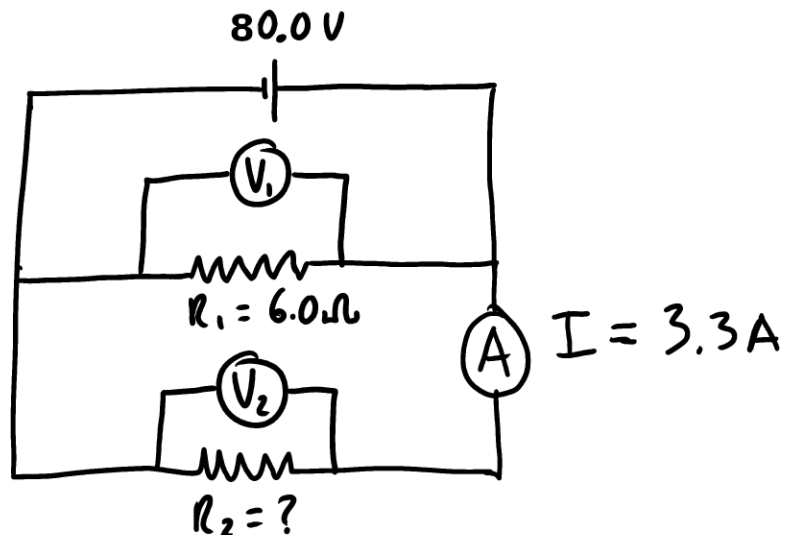
$R_1 = 4.0\Omega$

$R_2 = ?$
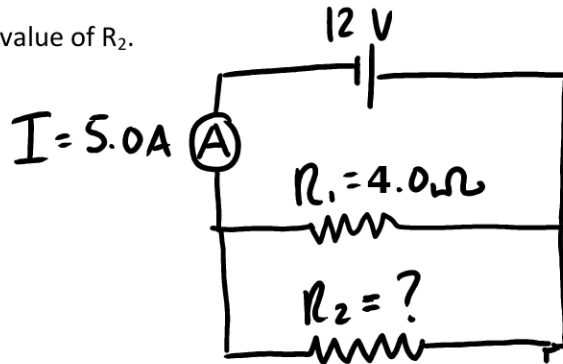
3) What is the potential difference supplied by the power source?

$V = ?$

$I = 8.0A$ (A)

$R_1 = 6.0\Omega$

$R_2 = 3.0\Omega$

$R_3 = 3.0\Omega$
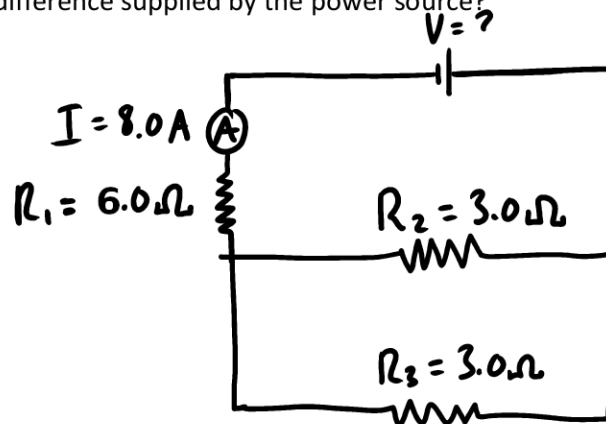
4) Find the values of V_1, V_2 and R_2.

80.0 V

(V₁)

$R_1 = 6.0\Omega$

(A) $I = 3.3A$

(V₂)

$R_2 = ?$

5) Find the value of I_3.

$I_3 = ?$ (A)

$I_2 = .5A$ (A)

$I_1 = 2.1A$ (A)
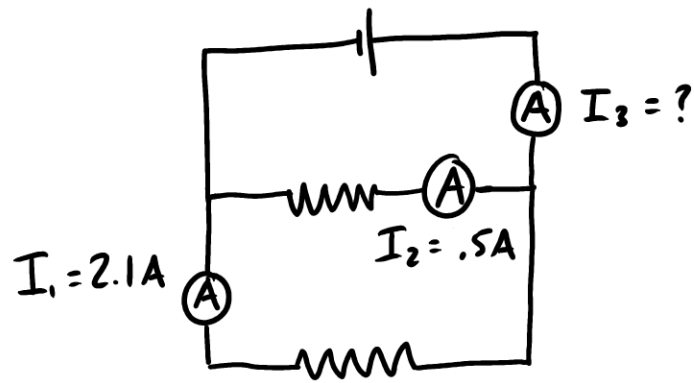
6) Find the value of V_2.

(V₁)

8.0V

22.0V

(V₂)
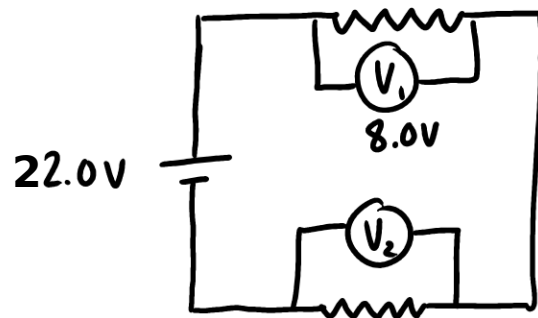
7) Find the value of V_2 and V_3.

(V₃)

(V₂)

(V₁) $= 11.0 V$

85.0V
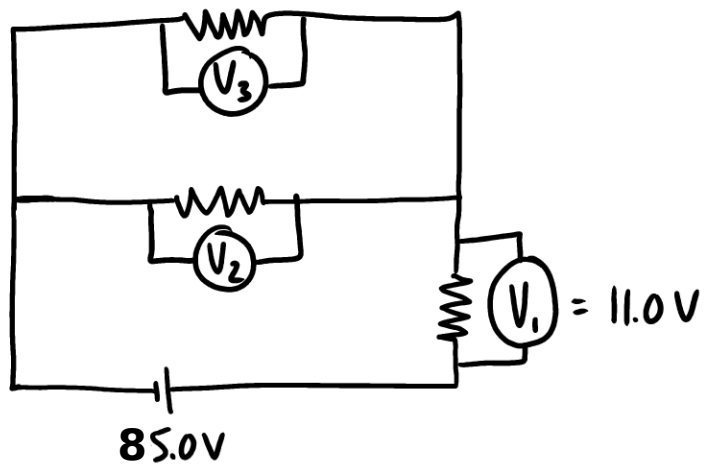
8) What is the total resistance in this circuit?

$R_1 = 15\Omega$

$R_2 = 20\Omega$
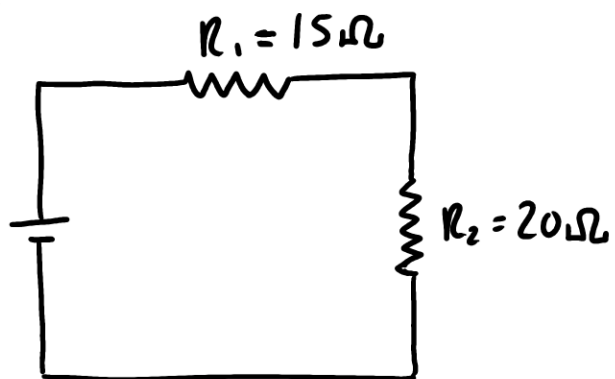
13) What is the value of the total current in this circuit and the power dissipated by R_1?

(A)

$5.0V$

$R_1 = 6.0\Omega$

$R_2 = 3.0\Omega$
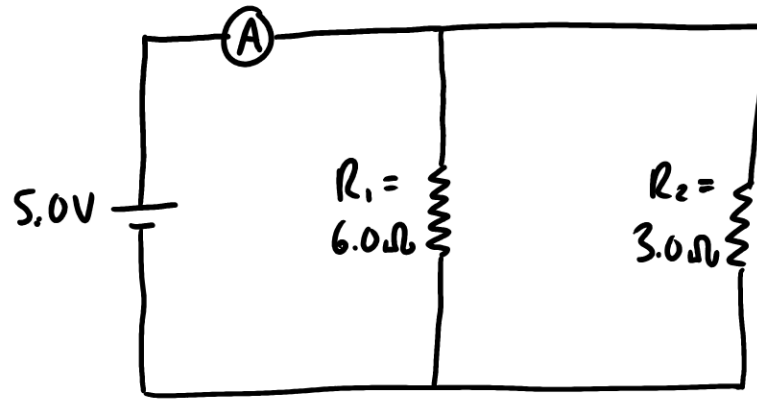
14) Find the values of the total current and I_2 as well as the total power used by the circuit.

$2.0V$

(A)

$R_1 = 6.0\Omega$

$R_2 = 8.0\Omega$

(A) $I_2 = ?$
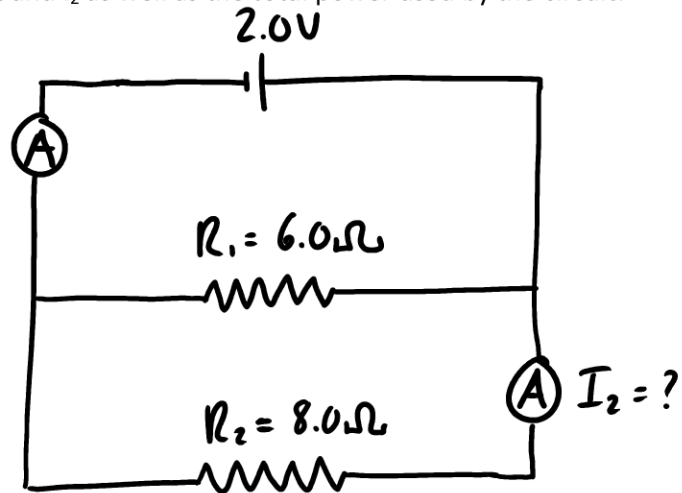
15) What are the values of I_1, I_2 and I_3?

$I_3 = ?$

(A)

$R_2 = 2.0\Omega$

$R_3 = 4.0\Omega$

$120.0V$

$R_1 = 6.0\Omega$

(A)

$I_1 = ?$

(A)

$I_2 = ?$