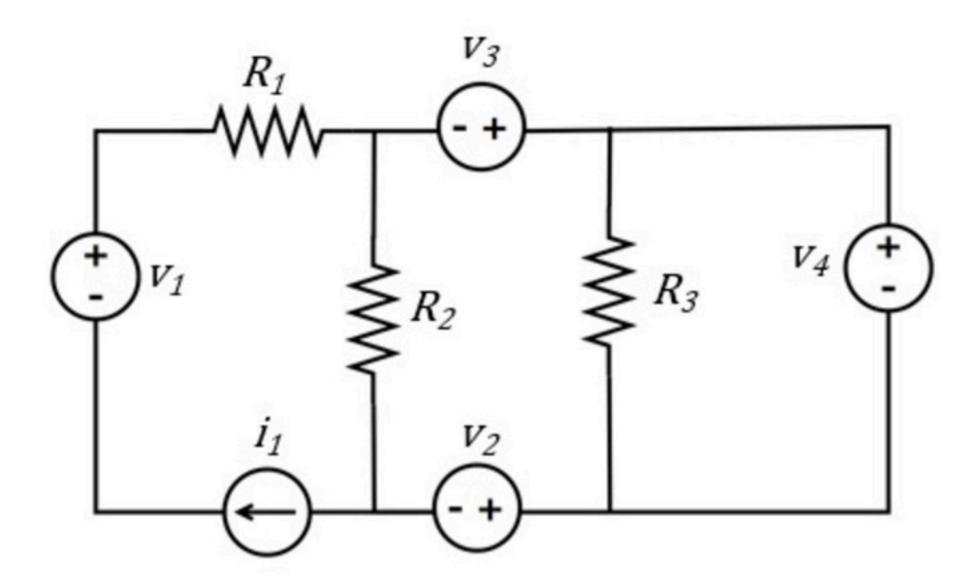
Basic analysis 003

Problem has been graded.

Determine the power received by each of the three resistors.



Given	Varia	bles

v1:3 V

v2 : 5 V

v3 : 1 V v4 : 2 V

i1 : 1 A

....

R1:2 ohm

R2:3 ohm

R3:4 ohm

Calculate the following:

P1 (W):

P2 (W):

P3 (W):

Determine the power received by each of the three resistors.



$$v2 = 3 V$$

$$v3 = 4 V$$

$$v4 = 2 V$$

$$R1 = 2 \Omega$$

$$R2 = 1 \Omega$$

$$R3 = 4 \Omega$$

(b)
$$R_3: f = \frac{v_4^2}{R_3} = \frac{4}{4}$$

(a)
$$R_1 \cdot P = R_1 \cdot L_1^2 = 2 \cdot 4^2$$
 $P_{R_1} = 32W$
(b) $R_3 \cdot P = \frac{U_4^2}{R_2} = \frac{4}{4}$ $P_{R_3} = 1W$

$$P = \frac{\sqrt{a}}{R_2} = \frac{1}{1}$$
 $\left[\int_{R_1}^{R_2} = 1 w \right]$