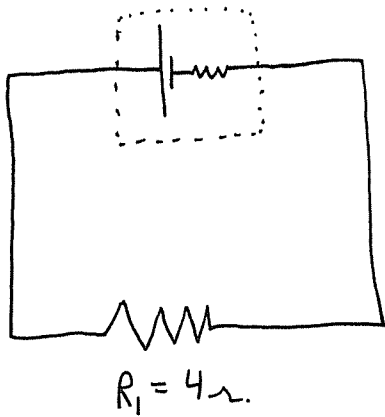


### Physics 12 Chapter 18/19 Circuit Analysis Worksheet #3

Name: \_\_\_\_\_

1. Find the required missing values. Show your working in clearly defined (boxed) steps.

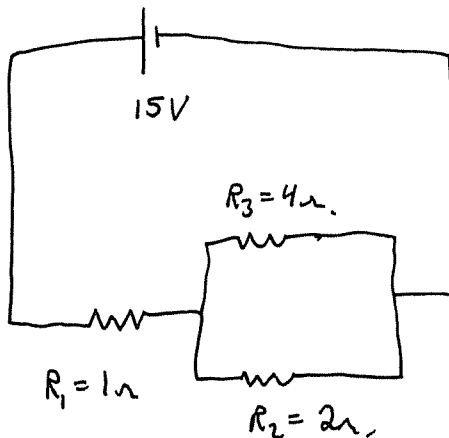


$$E = 1.5\text{ V}$$

$$r \text{ (internal resistance)} = 0.45\ \Omega.$$

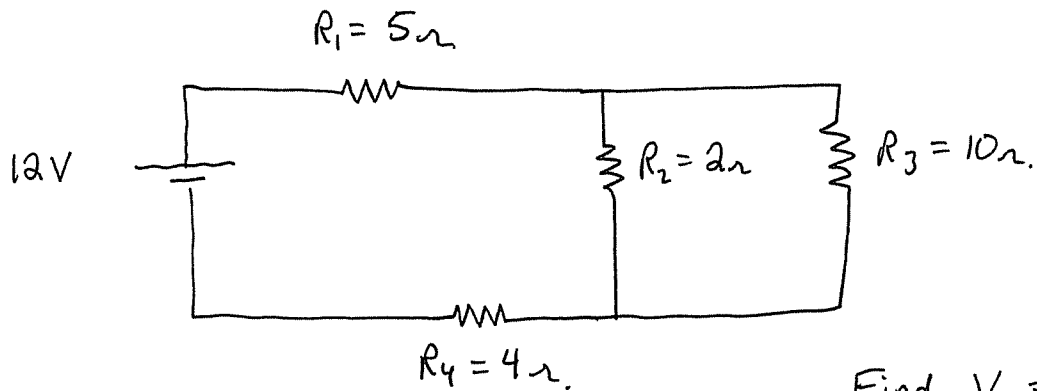
$$V_T = ? \quad I = ?$$

2. Find the required missing values. Show your working in clearly defined (boxed) steps.



What power is dissipated by  $R_2$ ?

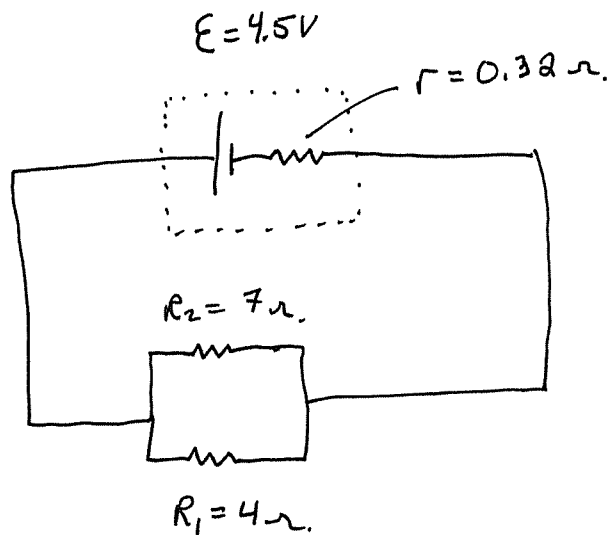
3. Find the required missing values. Show your working in clearly defined (boxed) steps.



Find  $V_3 = \underline{\hspace{2cm}}$

$V_4 = \underline{\hspace{2cm}}$

4. Find the required missing values. Show your working in clearly defined (boxed) steps.



$V_T = ? \underline{\hspace{2cm}}$