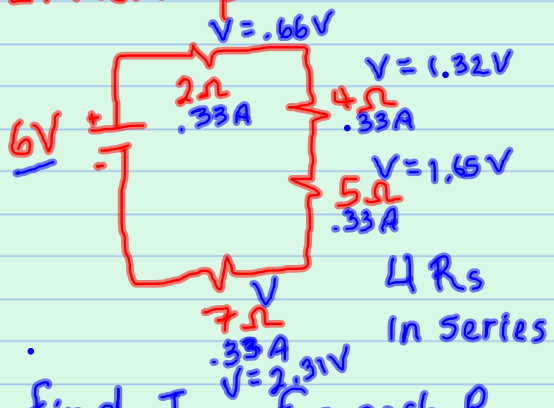
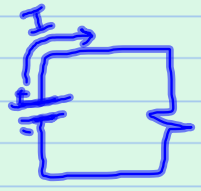
Ch18 DC Circuits

Ex. 18.1 p 559



4 Rs in series

find I, for each R



$R_{eq} = 2+4+5+7 = 18\,\Omega$

$V = I \cdot R$

$I = \frac{V}{R} = \frac{6}{18} = .33A$

$V = IR$

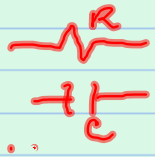
$= .33(\quad) =$

$\mathcal{E}$ - electromotive force

emf

ex. battery, generators

R (load) - bulbs, computer



R in series

* $R_{eq} = R_1 + R_2 + \ldots$
* $V_{eq} = V_1 + V_2 + V_3 \ldots$
* $I_1 = I_2 = I_3$

① find R_{eq}

① find I

$V = IR$

③ find V