KEY
3/11
PER XX
CKT # 2

★ 31. 10 C in 5 sec

$I = \frac{q}{t}$ (C/s)

$= \frac{10\ C}{5\ s}$

$\boxed{I = 2\ A}$

$\frac{Z}{Z}$

★ 32. 35 C in $\frac{1}{1000}$ s

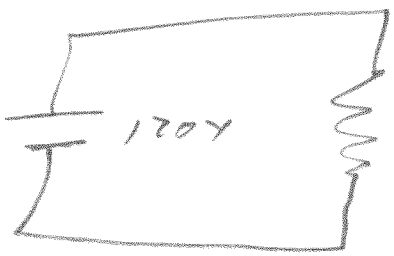
$I = \frac{q}{t}$

$= \frac{35\ C}{.001\ s}$

$\boxed{= 35{,}000\ A}$

$35 \times 10^3\ A$
$3.5 \times 10^4\ A$

★ 33.



$V = IR$
$I = V/R$

$I = \frac{120\ V}{14\ \Omega}$

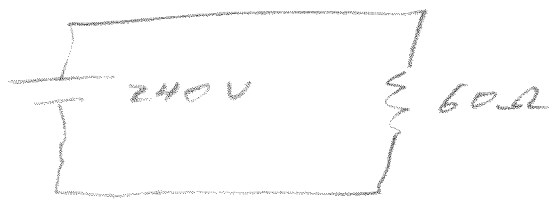
$\boxed{I = 8.57\ A}$

★ 34. 240 V
60 Ω element

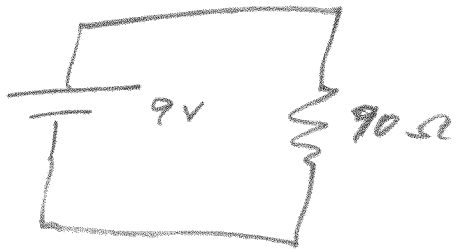
$V = IR$
$I = V/R$

$I = \frac{240\ V}{60\ \Omega}$

$\boxed{= 4\ A}$



A 35.



$V = IR$

$I = V/R$

$I = \frac{9V}{90\Omega}$

$\boxed{I = .1A}$

A 36.

$R = 1200\Omega$

$V = 6V$

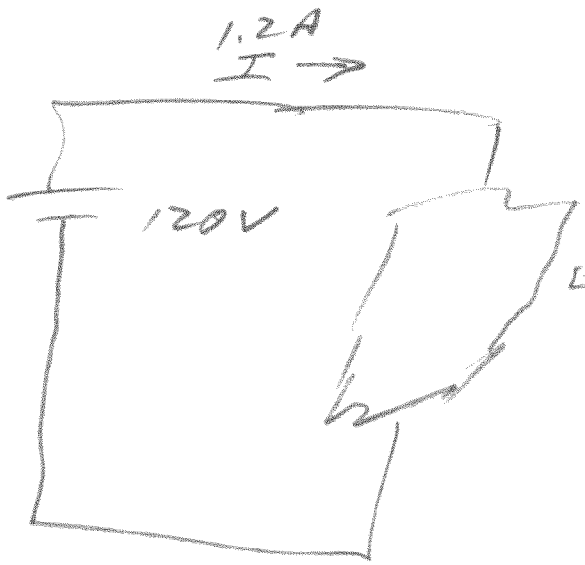
$V = IR$

$I = V/R$

$I = \frac{6V}{1200\Omega}$

$\boxed{I = .005A \quad (5mA)}$

A 37.



$P = IV$

$= (1.2A)(120V)$

$\boxed{P = 144W}$