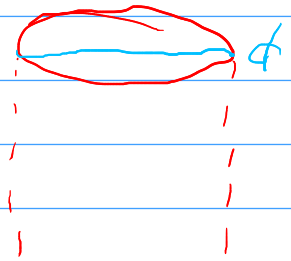
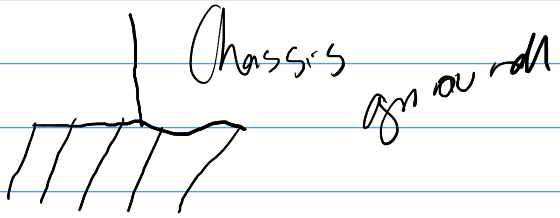
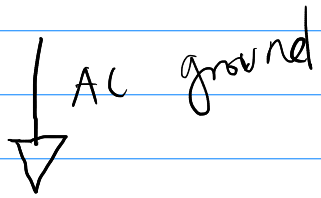
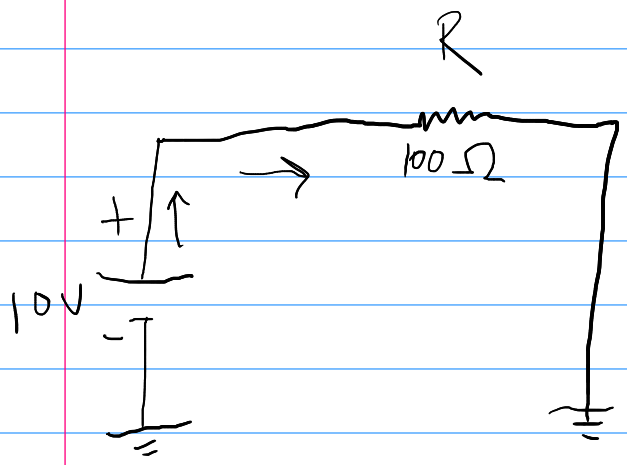
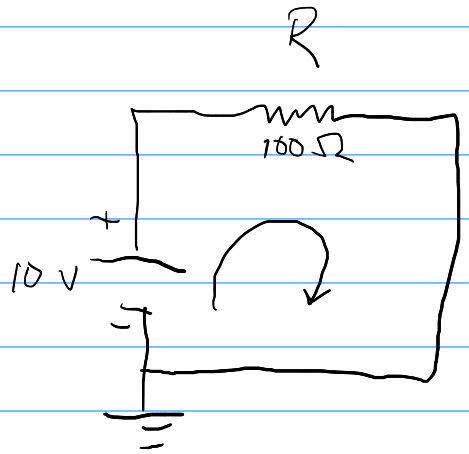

Earth
ground

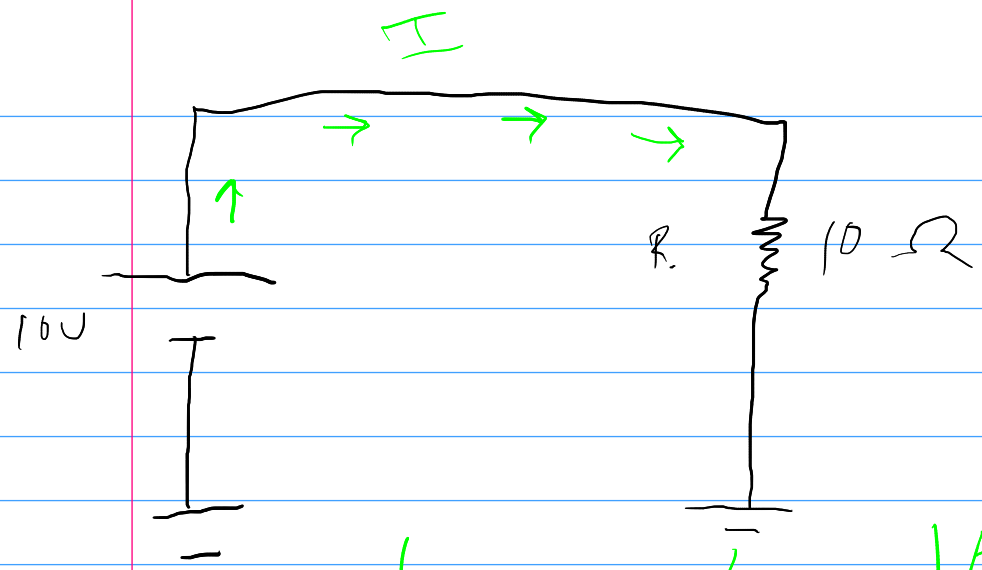

Φ


Chassis
ground

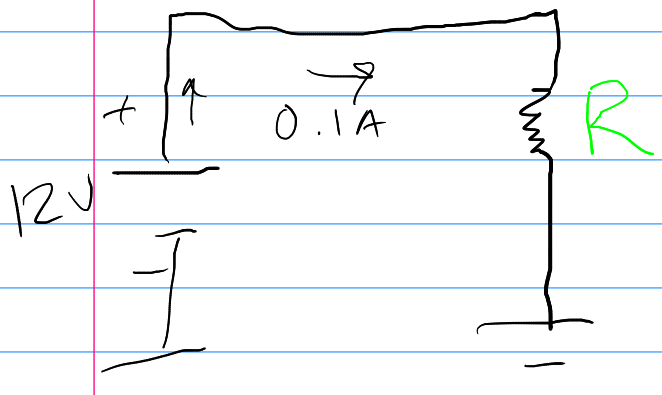

AC ground


R
100Ω
+
10V
-

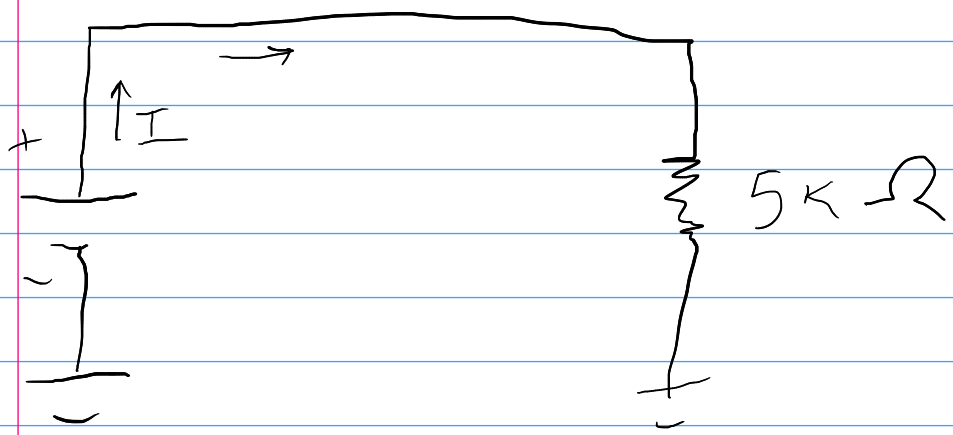

R
100Ω
+
10 V
-



$$I = \frac{V}{R} \qquad \frac{10V}{10\Omega} = 1A = I$$



$$R = \frac{V}{I} = \frac{12V}{0.1A} = 120\Omega = R$$

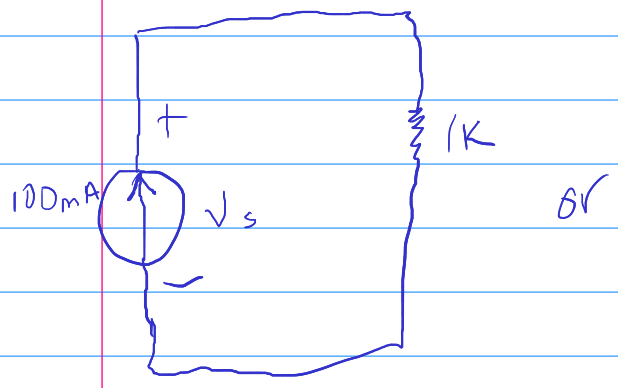


$$I = \frac{V}{R} = \frac{10V}{5K\Omega} = \frac{10}{5 \times 10^3} = 0.002A$$

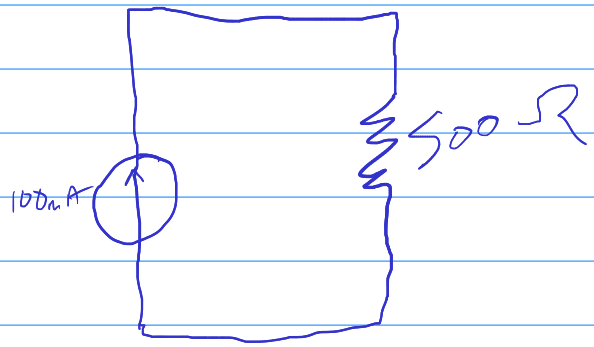
$$2 \times 10^{-3} A$$

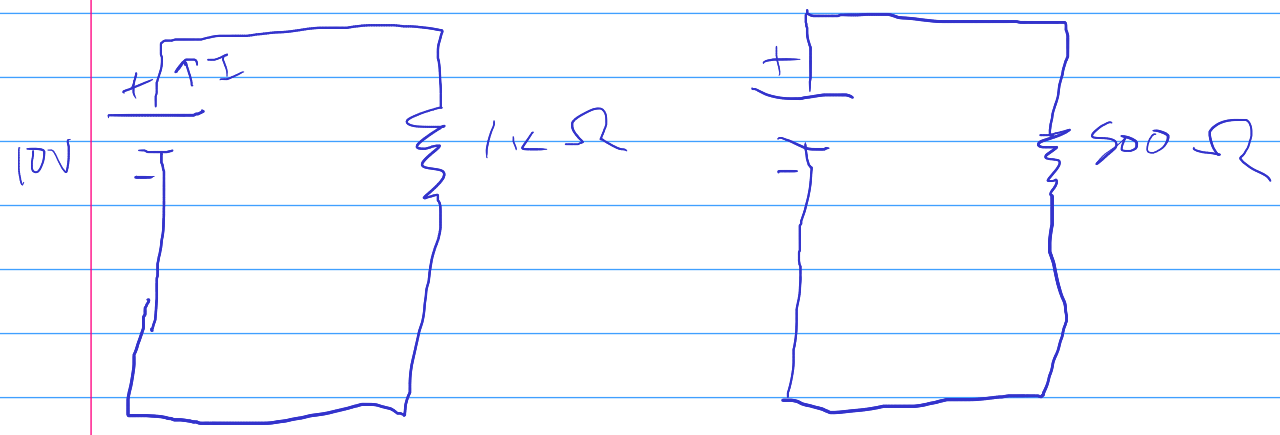
$$\frac{Volt}{1K\Omega} = mA \qquad \frac{volt}{M\Omega} = MA$$

$$2mA$$



OR




+
I
10V
-
1kΩ
+
-
500Ω