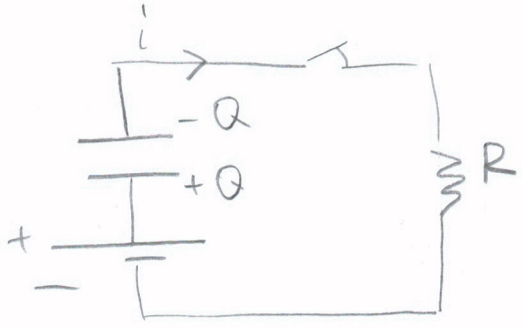
Answers Exam 3 2019

1. $i = i_1 \frac{R}{\pi D}$

2. $\vec{F} = q v \frac{\mu_0 i}{2\pi A^2}$ h down

3. $i = \frac{\mu_0 i_0 W}{2\pi R}$ h $\frac{D+H}{D}$ $\gamma \sin(\gamma t)$

4. 

$$Q(t) = C(V - B_0 \alpha H W)\left(1 - e^{-\frac{t}{RC}}\right)$$