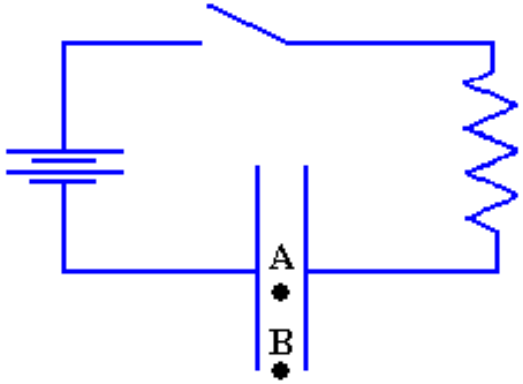
# CheckPoint 1a


At time t=0 the switch in the circuit shown below is closed. Points A and B lie inside the capacitor; **A is at the center** and B is toward the outer edge.




After the switch is closed, there will be a magnetic field at point A that increases as the current in the circuit increases:

***A.*** True ***B.*** False

$$B = \frac{\mu_0 I_1}{2\pi}\frac{r}{R^2}$$

$B$ is proportional to $I$

but

At center, $B = 0$ !!