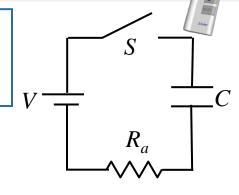
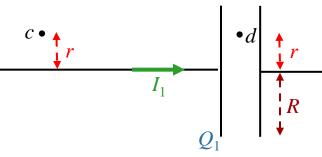
Calculation

Switch S has been open a long time when at t=0, it is closed. Capacitor C has circular plates of radius R. At time $t=t_1$, a current I_1 flows in the circuit and the capacitor carries charge Q_1 .





Compare the magnitudes of the B fields at points c and d.

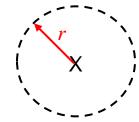
A)
$$B_c < B_d$$

$$\mathbf{B)} \; B_c = B_d$$

$$C) B_c > B_d$$

What is the difference?
Apply (modified) Ampere's Law

point
$$c$$
:
 $I(\text{enclosed}) = I_1$



point
$$d$$
: I_D (enclosed) $< I_1$

