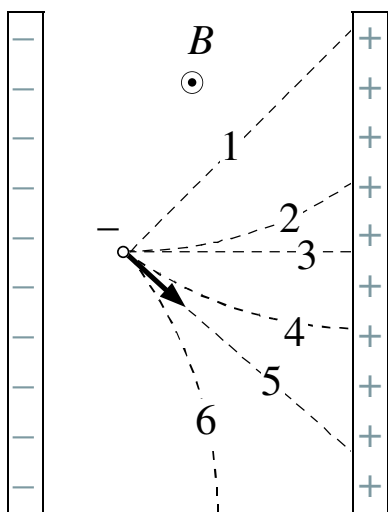


A negatively charged particle moves between the plates of a capacitor under the combined influence of a magnetic field B directed out of the page) and the electric field in the capacitor. If, at the instant shown, the particle has the instantaneous velocity represented by the arrow, which of the paths shown best represents the trajectory of the particle? (ignore gravity)



1. Path 1
2. Path 2
3. Path 3
4. Path 4
5. Path 5
6. Path 6
7. None of the above