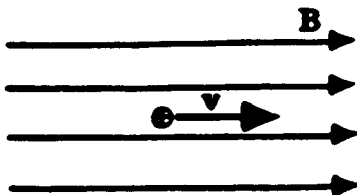


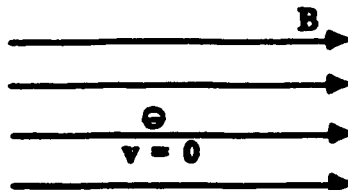
The Magnetic Force on a Charge in a Magnetic Field—1

For each situation shown below, decide if the magnetic force on the charge is zero. If not zero, indicate beside the drawing the direction of the force.

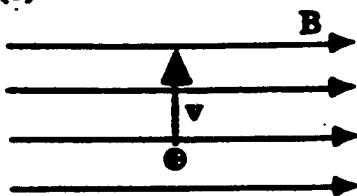
(a)



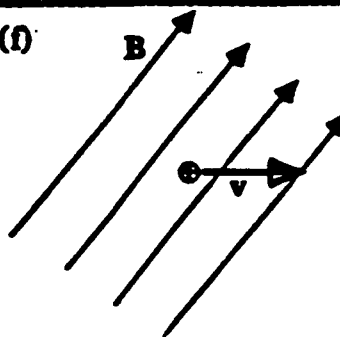
(e)



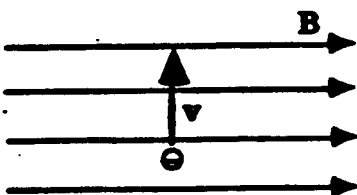
(b)



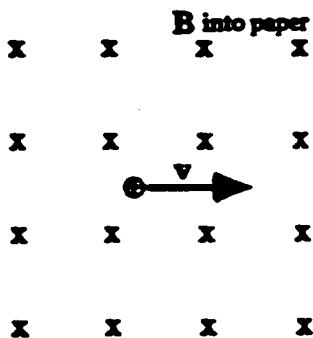
(f)



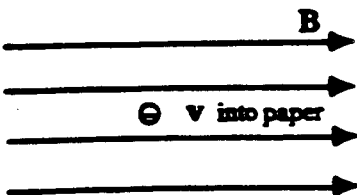
(c)



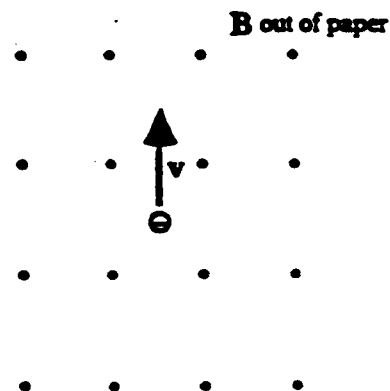
(g)



(d)



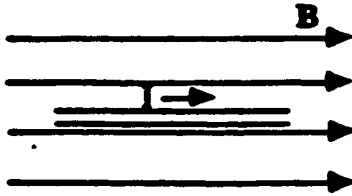
(h)



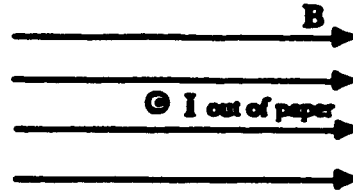
The Magnetic Force on a Current in a Magnetic Field—3

For each situation shown below, decide if the magnetic force on the short section of wire that carries an electric current is zero. If not zero, indicate beside the drawing the direction of the force. (Note that, in order for the current to continue, the current that is shown must be connected to other sections of wire that are not shown.)

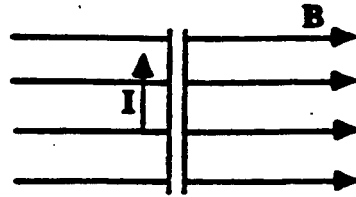
(a)



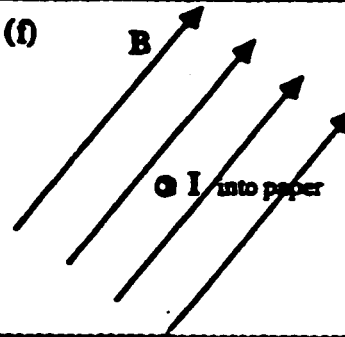
(e)



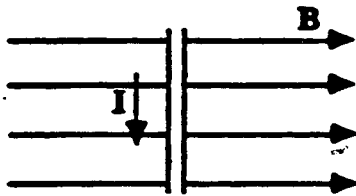
(b)



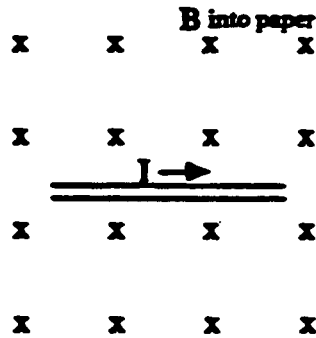
(f)



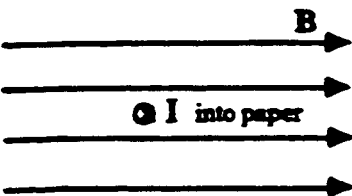
(c)



(g)



(d)



(h)

