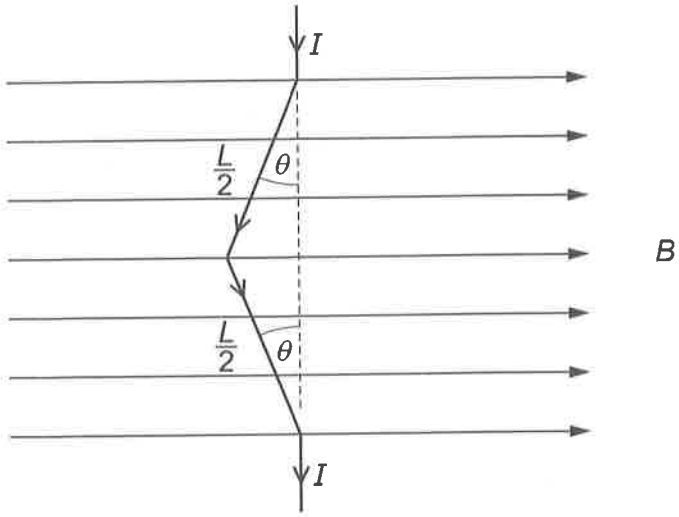
27 The diagram shows a bent wire in a magnetic field of flux density B.

The length of wire in the field is L and each half of the wire is inclined at an angle θ normal to the field direction. There is a current I in the wire.



Which row gives the magnitude and the direction of the force acting on the wire?

	magnitude	direction
A	$BIL \sin\theta$	into the page
B	$BIL \sin\theta$	out of the page
C	$BIL \cos\theta$	into the page
D	$BIL \cos\theta$	out of the page

28 A charged particle moves into a region of uniform magnetic flux density as shown.