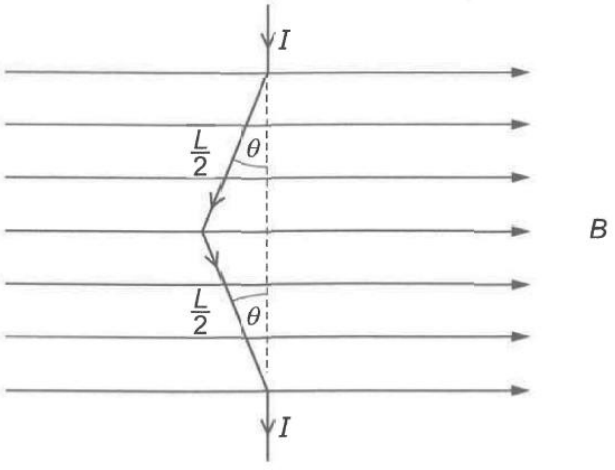
24 The diagram shows a bent wire in a uniform magnetic field of flux density *B*.

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* cos θ	out of the page
B	*BIL* cos θ	into the page
C	*BIL* sin θ	out of the page
D	*BIL* sin θ	into the page