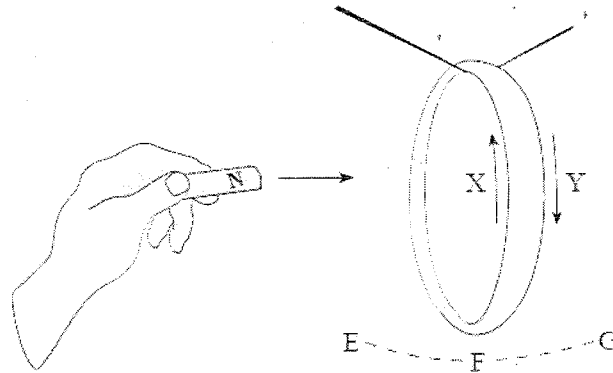


Physics 12 Review

1.

A magnet is moved towards an aluminum ring suspended on string as shown.



Determine the direction in which current will flow in the ring and the direction in which the ring will move.

	DIRECTION OF CURRENT IN RING	DIRECTION RING WILL MOVE
A.	X	from F towards G
B.	X	from F towards E
C.	Y	from F towards G
D.	Y	from F towards E

2.

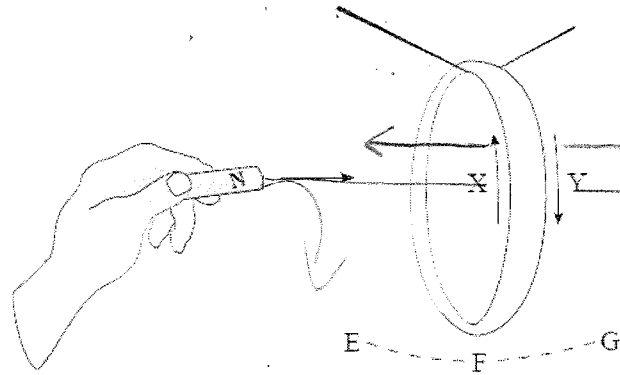
As an aircraft flies horizontally over the North Pole, a 0.80 V potential difference is induced across the wings. If the aircraft now slows to one half of the original speed, what will the new potential difference be?

- A. 0.40 V
- B. 0.57 V
- C. 0.80 V
- D. 1.6 V

Physics 12 Review

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A magnet is moved towards an aluminum ring suspended on string as shown.



magnetic field being introduced  
 $\therefore$  X is the direction of current

Determine the direction in which current will flow in the ring and the direction in which the ring will move.

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$$\mathcal{E} = Blv$$

$$0.8 = Blv$$

$$\mathcal{E} = Bl \frac{1}{2}v$$