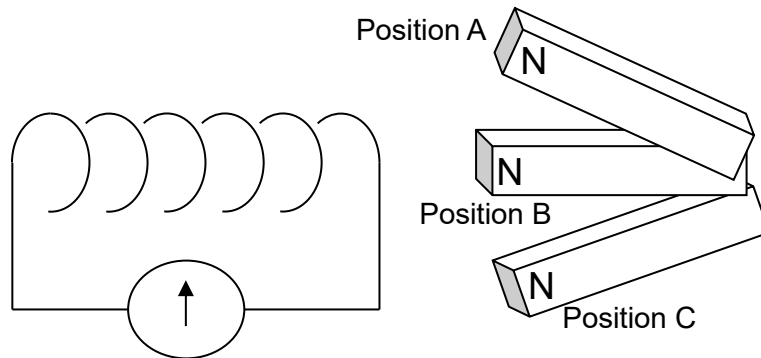


- 23** The North pole of a bar magnet is rotated across one end of a coil of wire from position A to B to C as shown in the diagram below, at a rate of rotation  $\omega$ . The maximum movement of the galvanometer needle is 10 units to the left.



The North pole of a bar magnet is then rotated across the same end of the coil of wire from the reverse direction from positions C to B to A, at twice the rate of rotation.

What is the maximum movement of the meter needle?

- A** less than 10 units to the left
- B** less than 10 units to the right
- C** more than 10 units to the left
- D** more than 10 units to the right