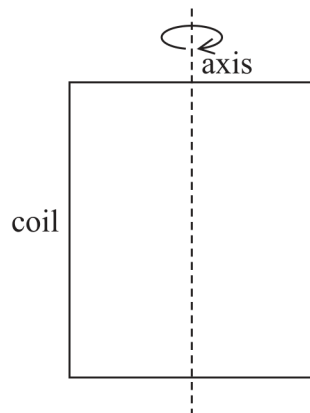


- 5 The diagram shows a rectangular coil of  $N$  turns. The coil rotates around an axis as shown. A magnetic field acts perpendicular to the plane of the coil in the position shown.



The magnetic flux linkage with the coil is  $N\phi$ . The coil is rotated through an angle of  $\pi$  radians.

Which of the following is equal to the change in magnetic flux linkage with the coil?

- ☐ A 0
- ☐ B  $N\phi/2$
- ☐ C  $N\phi$
- ☐ D  $2N\phi$

(Total for Question 5 = 1 mark)