











We have a square loop with side of length a. There is a uniform B-field in the region. How does the magnitude of Magnetic Flux,  $|\Phi_B|$  change if we <u>halve</u> the B-field strength and <u>double the sides</u> of the square loop?

A: Down by 2 B: Down by 4

C: Same

  $\bigotimes B$ 

A loop sits in a B-field (which points in the +z direction).
The loop lies in the x-y plane.
Which of the following would NOT change the magnitude of the flux through the loop?

A: Tilt the loop out of the x-y plane.

B: Rotate the loop around the z-axis

C: Increase the radius of the loop

D: Tilt the direction of the B-field.

E: More than one does NOT change flux

A loop of wire is moving rapidly through a uniform magnetic field as shown.

Is a non-zero EMF induced in the loop?

A: Yes, there is

B: No, there is not

