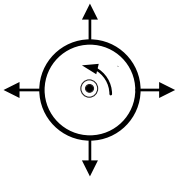
Physics 2135 **Special Homework Assignment #8**

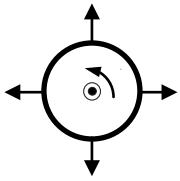
A rotating coil is placed in the xy-plane in a uniform magnetic field. The rotational axis is at the center of the coil and oriented in +z direction. Circle only TWO of the following that have current induced in the loop.

$\otimes B$
B in –*z* direction.
Coil radius is unchanged.

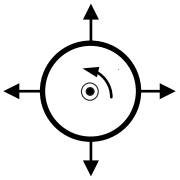


$\otimes B$
B in –*z* direction.
Coil radius is increasing.

$\odot B$
B in +*z* direction.
Coil radius is unchanged.



$\odot B$
B in +*z* direction.
Coil radius is increasing.



$\uparrow B$
B in +*y* direction.
Coil radius is increasing.