

## PROBLEM:

In the rotating disk and strobe demo shown in class we observed that different flashing rates of the strobe light would make the spot on the disk stand still or move in different directions.

- (a) Assume that the disk is rotating **CLOCKWISE** at a constant speed of 960 rpm (that's per minute). If the flashing rate is 15 times per second, express the movement of the spot on the disk as a complex phasor. Determine the speed (rotations per second) and direction of movement of the spot.
- (b) Determine the flashing rate so that the spot will move counter-clockwise at a rate of one rotation every 5 seconds. Give all possible flashing rates such that this will happen.