A wheel is at one end of an axle of length $d$. The axle is horizontal. The wheel is set into motion so that it executes uniform precession; that is, the wheel’s center of mass moves with uniform circular motion. The wheel has mass $M$ and moment of inertia $I_{cm}$ about its central axis, through its center of mass. Its spin angular velocity has magnitude $\omega$ and is directed as shown in the figure below. (a) What is the precessional angular speed? (b) Does the flywheel rotate clockwise or counterclockwise about the vertical axis (as seen from above)?