1 | **Precessional Velocity**

Taking the setup, we can figure the sum of the angular momentums and lavage it to figure the spin angular momentum.

We note that the normal spin gives us:

$$\vec{L}_s = I\vec{\omega}_s \tag{1}$$

Furthermore, we can figure torque—and subsequent angular momentum contribution—of gravity as follows:

$$\vec{\tau}_g = lmg \tag{2}$$

We also note that:

$$\vec{L}_g = \int \vec{\tau}_g \, dt = lmgt \tag{3}$$

Adding the components