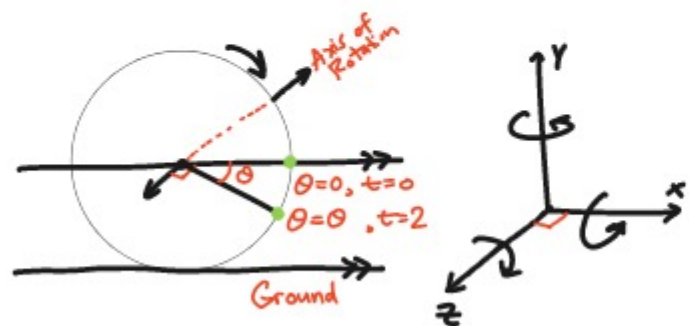


Q1 Part A



$$\omega = at - b \sin(ct)$$

$$x_{=0} \quad v(t) \quad x_f$$

$$\theta = \omega_0 t + \frac{1}{2} \alpha t^2$$

