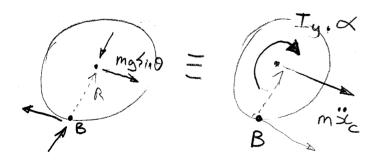


NEWTON'S 2ND LAW:-



EMB = mgRsin0

and

EMB = Iy. x + R.mic.

.:
$$mgR Sin0 = Igd + Rm x_c$$

For $NO-SLIP$ we have
 $|\dot{x}_c| = R.d / -25$.

$$\therefore \alpha = \frac{R.mg \sin \theta}{I_y + mR^2}$$

For a sphere we have $I_3 = \frac{2}{5} m R^2$

$$\mathcal{L} = \frac{59 \sin \theta}{7.R}$$

: 5.5 3 and 25 into 2.