$$\frac{\partial P}{\partial z} = \frac{1}{2} + \frac{1}{2} \sin \theta$$

$$\frac{\partial Z}{\partial z} = \frac{1}{2} + \frac{1}{2} \cos \theta$$

$$h = L(\cos \theta)$$

$$h = -l \cdot \delta \sin \theta$$

$$E_{K} = \frac{1}{2} M \dot{Z}^{2} + \frac{1}{2} m (\dot{z}^{2} + \dot{h}^{2})^{2}$$

$$= \frac{1}{2} M \dot{z}^{3} + \frac{1}{2} m (\dot{z}^{2} + l \cdot \theta \cos \theta)^{2} + (-l \cdot \theta \sin \theta)^{2}$$

$$\dot{z}^{3} + 2 l \cdot \theta \cos \theta + l \cdot \theta (\cos^{2} \theta + \sin^{2} \theta)$$

$$\dot{z}^{4} + 2 l \cdot \theta \cos \theta + l \cdot \theta (\cos^{2} \theta + \sin^{2} \theta)$$

$$\dot{z}^{4} + 2 l \cdot \theta \cos \theta + l \cdot \theta (\cos^{2} \theta + \sin^{2} \theta)$$

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$$\dot{z}^{4} + 2 l \cdot \theta \cos^{2} \theta$$

$$\dot{z}^{4}$$