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$$L=T-U$$

$$T=T_{tr}+T_{rot}$$

$$T=\frac{1}{2}m(\dot{r}^{2}+r^{2}\dot{\theta}^{2})$$

$$U=mgrcos\theta$$

$$f=0,-r=0$$

$$\ddot{r}=0$$
(1)

r=0 (2)

$$T = \frac{1}{2} m (\dot{r}^2 + r^2 \dot{\theta}^2)$$

$$U = mqr \cos \theta$$

$$L = \frac{1}{2} m (\dot{r}^2 + r^2 \dot{\theta}^2) - mqr \cos \theta$$

$$\frac{\partial L}{\partial \Gamma} - \frac{\partial \Gamma}{\partial \Gamma} \left( \frac{\partial L}{\partial \Gamma} \right) + \sqrt{\frac{\partial L}{\partial \Gamma}} = 0$$

0

$$mr\dot{\theta}^2 - mg\cos\theta = \lambda$$

$$\frac{1}{3\Gamma} - \frac{96}{9} \left( \frac{96}{9\Gamma} \right) + \frac{96}{9} = 0$$

$$mqrsin6 - 2miro - mr^20 = 0$$

