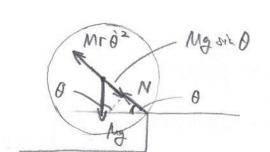
(5)
$$N + Mr\dot{\theta}^2 = Mg sin \theta$$

$$N = Mg sin \theta - Mr\dot{\theta}^2 - N$$



N加最小值EE3ali的In/2街买直货。

$$Sin \theta = \frac{r - h}{r} = 1 - \frac{h}{r}$$

$$\theta^2 = \omega^2$$

(1) Nmin 2005 tt "tva", D12 D 2 19 73 8

$$Mr \cdot \left(\frac{5}{7r^2}\left(\frac{7}{5}r-h\right)v_0\right)^2 \ge Mg\left(1-\frac{h}{r}\right)$$

$$v_0^2 = \frac{gr(1-\frac{h}{r})}{\left(1-\frac{5h}{7r}\right)^2} = \frac{g(r-h)}{\left(1-\frac{5h}{7r}\right)^2} = \frac{(7r)^2}{(7r-5h)^2} \cdot g(r-h)$$

$$F = \frac{1}{2} Nm \overline{l^2}$$

$$P = \frac{Nm\overline{U^2}}{313}$$

$$PL^{3} = \frac{1}{3}Nm\vec{v}^{2} = \frac{2}{3} \cdot \frac{1}{3}Nm\vec{v}^{2} = \frac{2}{3}E$$

 $f(x) PL^{3} = nRT = \frac{1}{3}Nm\vec{v}^{2} = \frac{2}{3}E$

$$T = \frac{2}{3} \frac{N_A}{NR} E$$

a T
$$\propto$$
 E

$$\overline{v^2} = \frac{2E}{Nm}$$

$$\sqrt{10} = \sqrt{3.83} \times 10^{2}$$

$$= \sqrt{29.9} \times 10^{2}$$

$$mv_{2} - (-mv_{2}) = 2uv_{2}$$
 $v_{2} + v_{3} = mv_{2} + v_{4}$
 $v_{2} + v_{5} = mv_{2} + v_{5} + v$