2.18.
$$T(r) - T(r+dr) = \frac{dr}{dr} \cdot w^2 r^2 = -T(dr)$$

$$\frac{dr}{dr} + \frac{dr}{dr} \cdot T(r) = -\int_{\ell}^{r} r dr \cdot \frac{mw^2}{\ell} = \frac{mw^2}{2l} (l^2 r^2)$$

$$A T(r) = \frac{mw^2}{2l} (l^2 - r^2)$$

$$\frac{v}{r_{lm}}$$

2.19.

2.20 - B: mg - 7N = mag

A: (Mg+N)SiNO=HAAB

State ar/an

NSIND = MODE LOSA.

GA+mgp-NOUSD=map+Mapsind. O=d

ラ aran = ar - ar = - ar cos O = M+m sing sind cos O. か平向ち

$$=) \mathcal{H} = \frac{(M+m) Mg \cos \theta}{M + m \sin^2 \theta}$$

2.21.以料件和为多考。

$$= \int a = \frac{(m_1 - m_1)(g - a_0)}{m_1 + m_1} \qquad T = \frac{2m_1 m_1(g - a_0)}{m_1 + m_1}$$

2.78.· 簡 m. 何不到方向为正. 形定 m. 到力速度为 α_1 . m. 为 α_1 . $m_1g - f - m_2\alpha_1 = m_2\alpha$ $\Rightarrow \alpha_1 = \frac{(m_1 - m_1)g - m_1\alpha_1}{m_1 + m_1}$ $\alpha_2 = \alpha_1 + \alpha_2 = \frac{(m_2 - m_1)g + m_1\alpha_1}{m_1 + m_1}$ $\alpha_1 = \frac{(m_1 - m_2)g + m_1\alpha_1}{m_1 + m_2}$ $\alpha_2 = \frac{(m_1 - m_2)g + m_1\alpha_1}{m_1 + m_2}$ $\alpha_3 = \frac{(m_1 - m_2)g + m_1\alpha_1}{m_1 + m_2}$ $\alpha_4 = \frac{(m_1 - m_2)g + m_1\alpha_1}{m_1 + m_2}$ $\alpha_4 = \frac{(m_1 - m_2)g + m_1\alpha_1}{m_1 + m_2}$ $\alpha_4 = \frac{(m_1 - m_2)g + m_1\alpha_1}{m_1 + m_2}$ $\alpha_4 = \frac{(m_1 - m_2)g + m_1\alpha_1}{m_1 + m_2}$

 $\begin{cases}
= \frac{m \cdot m_1 (2g - a)}{m \cdot f m \cdot c}$

2.30
(1).
$$I = \int_{0}^{0.4} f(t) dt = \int_{0}^{0.1} 200t dt + \int_{0.1}^{0.3} 200 dt + \int_{0.3}^{0.4} (80 - 200 t) dt$$

$$= |ovt^{2}|_{0}^{0.1} + 20t|_{0.1}^{0.3} + (80 - 100t^{2})|_{0.3}^{0.4}$$

$$= 8 \text{ H/S}$$

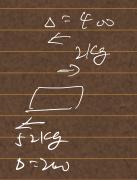
$$7 = \frac{1}{4} = 20 \text{ M}$$
(2) $I + mv = mv \Rightarrow v = \frac{1}{3} \text{ m/S}$

$$2.44$$
.
機能的語
MV:=mV, 且 V:+V:-U =>V:= m
M+m U 核 V_0 = V_0 COSX + mu
 $X=V_0$ V_0 Sid = V_0 COSX + mu
 V_0 V_0

2.50.

$$X_{c}=0$$
. $M=\frac{1}{2}\pi R^{2}-\delta$
 $\mathcal{H}_{c}=\pi\int \mathcal{H}dm=\pi\int r\sin\theta \cdot rd\theta \cdot cdr \cdot \delta=\frac{4\pi}{3\pi}$
极限的性权 $\left(0,\frac{4R}{3\pi}\right)$





2.73.
$$V(1) = (3i + 6j) m/3$$

$$\vec{f} = ma = 6.6N.$$

$$p = 7. \vec{v} \implies p = 4.8 \text{ W}$$

(1)
$$\oint [(-6 \times) - (4) \times^3] dX = 0.$$
 7% (4) f

(2) Ep =
$$\int_{0}^{0.1} F(x) dx = 0.030) J$$

2.80.
$$5(N_4m)V^2 = \int_0^{\infty} |hxdx + n(m+n)g(N_4m)V = mV_0$$

$$-)V_0 = \frac{2N_5 I_{46}}{2N_5} m/s$$

$$2.8|.$$
 $mg \frac{l-l_0}{l} (l_0 + \frac{l-l_0}{2}) = \frac{1}{2} m v^2 \Rightarrow V = \sqrt{\frac{l^2 - l_0^2}{l} g}$

2.88.

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 2.8

 $\longrightarrow m$

2-110.

$$mv_1 = MV_1 = \frac{1}{2}MU_1^2 + \frac{1}{2}m[\frac{V_1}{\omega_R}]^2 = mgh \Omega U_{Ab} - 3 = \frac{1}{\omega_R} + V_2$$

$$= \frac{1}{2}V_{Ab} + 3iq = \sqrt{\frac{M+m\omega_1 \omega_2^2}{M(M+m\omega_2^2)}} U_{Ab}$$

$$= \frac{m^2gh \omega_2^2 \omega_2^2}{M+m\omega_2^2 \omega_2^2}$$

2.128. m(V+v)=-MV 1 M=m => V= \(\frac{1}{2}\) V

100