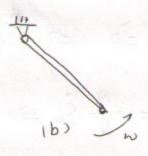
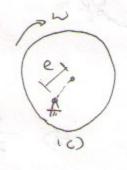
HW9

18-15.如图式3种情况揭标的动势矩。(a) r, P, W (b) e, PW (C) r, e. P, W







$$\lambda = \frac{1}{2}m^2 w = -\frac{p}{g}r^2 w$$

(c)
$$L_0 = -(\frac{1}{2}mr^2 + me^2) w = -\frac{p}{9}(\frac{r^2}{2} + e^2) w$$

$$\vec{R}$$
 Lo = - m. we. e - $\frac{1}{2}$ mr w = $-\frac{p}{g} \left(\frac{\vec{Y}}{z} + e^{i} \right) w$ (#

(8-16, 天国1975年人总卫生, 地球是初有圆住后, 连地 439km, 这地2384km 如他研究证证以=812km/s, 本行为637°km, 求卫红这世后进入2

为主南元号矩叠。 西有 mvi. 439年mvz. (2384+6370)

$$V_{2} = \frac{8.12 \times (439 + 6370)}{(2384 + 6370)} = 6.32 \times m/s$$
(#)

18-18、将圆的质重户, 轻广, 金纳粉动, 多风场人格5=a长发 地传论 量缘心脏特殊, 设开始时半处, 出图重角造发心的有效

y signal signal

为了:没国盘的南南日,人口8个边对直动公5岁的5点。

少期有目的角滩和

$$\frac{dL_0}{dt} = 0 \implies \frac{d}{2g} \frac{P}{\dot{o}} - \frac{Q}{g} \frac{\dot{o}}{s_0} r = Const$$

$$= 0 \Big|_{t=0}$$

$$\Rightarrow \frac{p}{29} r \dot{o} = \frac{Q}{9} \dot{S}_{a} \Rightarrow \frac{p}{29} r o = \frac{Q}{9} \dot{S}_{a}$$

Constant of the Constant of the

$$\Rightarrow \theta = \frac{S}{(1 + \frac{P}{2Q})r} \Rightarrow w = \theta = \frac{2Q}{P+2Q} \frac{S}{r} = \frac{2Q}{(P+Q)r} at$$

$$\vdots \qquad 2Q \qquad (1 + \frac{1}{2})r$$

$$a = \ddot{o} = \frac{2Q}{(p+2Q)r} a (#)$$

[8-2]. R, m均障图垂京川双规的公部的设置 120对部 丰甸目面过图台中公的日初日的日初图章,37才年份于0分时日期后的 村和北京 11) Jz= Sydm= ~ Sydm CITY 4R 5T = $\frac{1}{4}\int (x^2+y^2)dm = \frac{1}{4}-\frac{1}{2}(2m)r^2 = \frac{1}{4}mr^2$ 12) $J_0 = \int_{\frac{\pi}{2}} (y^2 + x^2) dm = \frac{1}{2} \int_{\mathbb{R}} (x^2 + y^2) dm = \frac{1}{2} m r^2$ 13) $J_c = J_0 - md^2 = \frac{1}{2}mr^2 - m(\frac{4r}{3x})^2$ (注, 起码粉) $=\left(\frac{1}{2}-\frac{16\sqrt{2}}{9\pi^2}\right)mr^2(\#)$ Sidme2 = \(\frac{1}{3} \left(\int \tau^2 \right)^2 dm = = = 3 S (J+z=)3 e dx =S(roso)2dm =S(roso)2 e rdodr

$$[8-22]$$
 杆 P₁ / 图 R₂ R₃ R₄ + $\frac{P_2}{3}$ ($\ell+R^2$)

HW9 6

18-20、如图·清伦重风,节径尺, 对加到射线点, 易满意的户。清险、

 $\frac{1}{\sqrt{T}} \Rightarrow \alpha = \frac{(M-PR)^9}{\sqrt{R^2+PR^2}} \Rightarrow \alpha_B = \alpha_B = \alpha_B = \frac{M-PR}{\sqrt{R^2+PR^2}} g_R$ $\frac{1}{\sqrt{T}} \uparrow \alpha_A \Rightarrow \beta_B \beta_B M + \beta_B M + \beta_B M \Rightarrow T = P + \frac{1}{2} \alpha_A = \frac{MR + \Omega R^2}{\sqrt{R^2+\Omega R^2}} P$ $\frac{1}{\sqrt{T}} \uparrow \alpha_A \Rightarrow T - P \Rightarrow T = P + \frac{1}{2} \alpha_A = \frac{MR + \Omega R^2}{\sqrt{R^2+\Omega R^2}} P$ $\frac{1}{\sqrt{T}} \uparrow \alpha_A \Rightarrow T - P \Rightarrow T = P + \frac{1}{2} \alpha_A = \frac{MR + \Omega R^2}{\sqrt{R^2+\Omega R^2}} P$ $\frac{1}{\sqrt{T}} \uparrow \alpha_A \Rightarrow T - P \Rightarrow T = P + \frac{1}{2} \alpha_A = \frac{MR + \Omega R^2}{\sqrt{R^2+\Omega R^2}} P$ $\frac{1}{\sqrt{T}} \uparrow \alpha_A \Rightarrow \frac{1}{\sqrt{T}} \uparrow \alpha_A \Rightarrow \frac{1}$

18-19.如图,均度较更W,较上,国现年行户,以自步放心射动。用:闽杆到方,设加对应国于,中居委长大沙内产业,而加级文字分为户
到达,设加对应国于,中居委长大沙内产业,而加级文字分为户
为 对 AB杆和 经代别分别如图.
AB杆门轨, D较小飞雪如珍沙.
有对 [AB]杆有 [AB] 开有 [AB] 开一户 是
FND-P (=0 =) 下一户

The Frank To The SMO STATE SMO STATE SMO STATE SHOWER THAT THE FARE STATE STAT

18-29 两部风风风景见,凡老轮八下用州,见作用即城州,常的

七の原图量, 式の角かきな

102 My

为·较0,0.多为初如用。由下,下流较限,

物东反力 幸知.

农0,02 这的新·夜0,00角加速分别

あ ×1, ×2 かり ×, R,= ×2=R2 × (×2+た。)

製のは き物が程.

JOIX = M + TIR, - TZR,

=> = PI RIX= M+ (TI-TZ) RI

校のいらきから程

Joz X = (T2-T1) R2 - M' => => => = P2 R2 X2 = (T2-T1) R2

·梅 (T1-T2)有, - 1 P1 R1×1+ 1 P1 R2×2 = M-M'

 $\Rightarrow d_1 R_1 = d_2 R_2 = \frac{M_1}{42(R_1 + R_2)} 9 \frac{M_1 - M_1}{R_1 - R_2} 9$

 $\Rightarrow x_{2} = \frac{M}{R_{1}} - \frac{M'}{R_{2}} = \frac{29(MR_{2} - M'R_{1})}{(P_{1} + P_{2})R_{1}R_{2}^{2}}$ (#) Pith

18-24. 如同透知的, 卷同部尺, 物质圆盘, 至P, 物角 x, 小菇同 了料量Q, (下用主动射灰M, 书好加速放. 为 斯T, FN, Fox, Foy 整个 三油部门、没小的重海口、则港向角加速的)对A的体、文方向的运动方径 ga = T-Qsind 2) 对美国, 好物程: JoX=M-TR => = = M-TR i的T, 得 QQ·R+ Zg RX = M-QRSinx => (QR+ 29 R) a = M- QR sin & $\alpha = \frac{2(M - RSTAX)}{(2Q+P)R}g$ (#) 18-26 文则图, 七种按手地中的事场,主·村展圆柱重户,年经下, "知好 角重度Wo,设在AB淋苔级的子,间经过约的同停止射动。 為沒國柱在墙壁的弹影明下海进行动,里面 1) 多分好如同 NA NB FRE FNA, AVFBE FNB 这种新国柱作等物的物,设加于对自《(开东) 2)对国柱户,各元的方位约3程。 NA=HESD, No=HES $0 = N_A - F_B$ $0 = P - F_A - N_B \implies \lambda = \frac{\varsigma(H_5)}{1+\varsigma^2} \frac{29}{r}$ Prox = FArt For

