## HW8

17-1. 新居堂m, 低角 8, 斜面与初初滑的摩摩擦用数 65。若经平整下, 且鼓轮接 8=0.5 at \*\* 赵律下的速转动, 试试知知

For P

公司 名本 图表 多的本方

对M进行多为分析如同。

着建如图笔标名 by S= Or = O. sart

a = 5 = ar

由华轻和新

ma= F-Psino-Fs 图 Ff= fN

有 F= ma + psino + fpcoso = Rt m(ar + gfcoso + gsino)

了一て如同、M=2kg, R=1.以外mm, 特的体与部份适应太极知为60mm释放 或物体3分款律、同期、治大連按重量大力违及。

1 m m m

好. 杨传览精振动。

X= Asinut + B cos wt , # W= \[ \frac{k}{m} = \int \frac{1.55 \text{ New Mar.}}{2 \text{ kg}} = 25 \text{ rad/s}

初始教 又 100 = 60 mm , 文 100 = 0

 $\Rightarrow$  A=0, B=60mm  $\Rightarrow$   $\chi = 60 \cos(25t)$ 

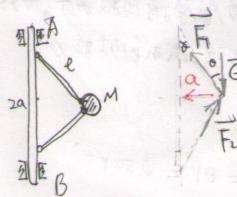
| 団連月 T= 2元 = 0.25 S , 品大きな Umax = 60 mm. 25 rad/s = 1.5 m/s

amax = 60-25 m/= 37.5 m/52

on any eliminal fillings

(#)

17-5 医智的的成为你、夏两杆支持, 杆柳本下的角色和新动、若AB=2a 村两约较强, 电台杆吻 20.3为分析如图,因外就下的意图写为  $Q = Q_n = \omega^2 \int \ell^2 - \alpha^2$ 



$$C = a_n = \omega^2 \int_{e^2 - a^2} e^{-a^2}$$

$$a = \frac{1}{4} \int_{e^2 - a^2} e^{-a^2}$$

$$(F_1 + F_2) \cos \theta = G = 0 \quad \cos \theta = \frac{a}{e}$$

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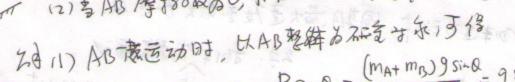
$$(F_2 + F_2) \cos \theta = G = 0 \quad \cos \theta = \frac{a}{e}$$

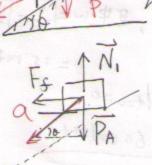
$$(F_3 + F_2) \cos \theta = G = 0 \quad \cos \theta = \frac{a}{e}$$

$$(F_4 + F_2) \cos \theta = G = 0 \quad \cos \theta = \frac{a}{e}$$

$$(F_4 + F_2) \cos \theta = G = 0 \quad \cos \theta = \frac{a}{e}$$

17-9、作名角日支滑科面层置mg=5kg核块B,至B上放度量mA=lokgm的块人 们号B至斜面消下,问A/B问数摩君级才的PARAB 如臣 (2)专的摩擦级的,市局和多下市时的的重要



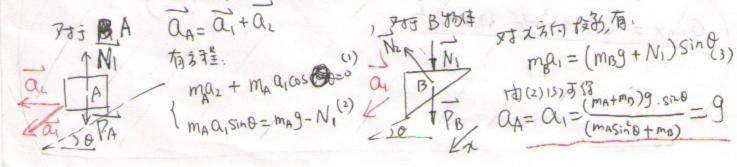


N=PCOSO, Q= 
$$\frac{P\sin\theta}{m} = \frac{(m_{A+}m_{B})9\sin\theta}{(m_{A+}m_{B})} = g\sin\theta$$

$$\begin{array}{ll}
\text{LL } Abz=235 & 5 \\
m_{A}a\cos\theta = F_{f} \\
m_{A}a\cos\theta = m_{A}g - N_{1}
\end{array}$$

$$\begin{array}{ll}
\text{The mag coso sind} \\
N_{1} = m_{A}g \text{ (Lsind)}
\end{array}$$

(2)全B的意为为Q1,A相对B的意宜Q2有如图

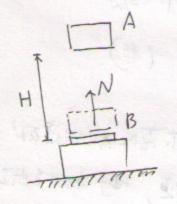


$$a_{2} = -a_{1}\cos\theta = -9 \cdot \frac{\sqrt{3}}{2} = -\frac{\sqrt{7}9}{2}$$

$$\vec{a}_{A} = \vec{a}_{1} + \vec{a}_{1}, \implies a_{A} = a_{1}\sin\theta = \frac{1}{2}9$$
(#)

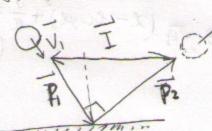
18-2, 宝陵锺A厅至250kg,从为为H=2m同的落下, 宝骏却低的。 改 气酸去阳旬 14.5,没有反跳, 新生的同内部冲量不计, 过载的气酸去力.

名本 完發专前 七。財政 VA = 529H = 6.26 m/s



笔较表 无防约. VA=0 mav = N. 40 5 => N= 408. 2508. 6268 本日初了五日 = 62,6 kN (#)

[8-3. 如同, 两样 M=1kg, 和建油 4m/s 成了集团时仅改变了方向,同日十月5-91. ·V2 を見: I= P2-Pi=JP因 P1=P2=mV 前周了的作用的物建品,中景大社



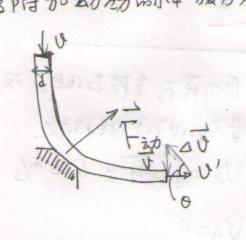
有· I = 52P1=52mV=452kg.m/s = 5.66 kg. m/s

MA=3 mg, 女田的产人才, 的女多妻配, 求自在活動地面的 ACCTIONS 全部、设按面地历时如图过于,没AIS移以A, B1370 UB, 有: UA+ UB + b= a 了之 A.B. 的成的现在好面对新夏.

malla = misus maUA = maVB 图 (VA(6)=0 有 maUA = MB(VA(6)=0 和 MAUA = MB(VA(6)=0 A MAUA = MB(VA(6)=0 A

$$\Rightarrow \frac{(a-b)/4}{(b)^{3}(a-b)}$$
 (#)

18-8.如同,水以V=V=Zm/s 世出首经日=300mm与设施就就重新人 けるPはかめたからいは分かか大か



$$F_{in} = PQ(\vec{v}' - \vec{v}) = PQOV$$

$$Q = \sqrt{\frac{\pi}{4}} \vec{l} = 0.41 \text{ m}^{3}/\text{s}$$

Fin - COSO = PQ 0 = 1410 kg/m3 · 0.14 m/g. 2.m/g

= 282 N (#)

18-10, 为起已杆AB, B智和两,多好成众角,我杆下克叶AC规连分;

台·AB科生的转有动量多恒,时初处的状态 是BJ Vc=0, 图地有

 $\chi_{c} = \chi_{e}|_{t=0} = \ell \cos x$ 

河至一时到 A 等核 (24,5) 2·1有.

$$y_{A}=2$$
 esino  $y_{A}=2$  esi

18-5 MA = 3 ms, gettligt first that the Atlanton Acres

Briso Us A. Ust Use + b= 0

18-12,如巴伦加,轮片隔e,凸的心地, cho凸轮中,冷块口 式了是一同年时 本种的全部行后 动约车的

yisty | Pacy = Fy-P-Q

ゆきから矢のi3:  $\{x_c = ecos\theta = \}$   $\{\ddot{y} = -ew^2 cos\theta\}$   $\{\ddot{y} = -ew^2 sin\theta\}$ 

20 = e coso+r => 20 = -e 2030

因她有  $fx = -\frac{P+Q}{g} e \omega^2 c u s Q$   $Fy = P+Q - \frac{Q}{g} e \omega^2 s \sin Q$