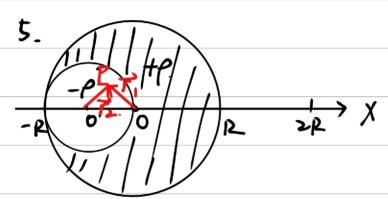
22-23 大物期末: HWX 1. 设心, 以 由动能使理: -mg(ht Lsing)-Hmgcosol = 0- 1mliz mg(h+Lsino)-Hkmg(uso-L= =mk2-0. => Vz = \zg(h+lsin0)-24129L1050 = 6.44 m/s 2 { Vy= VosinOu-9t } Vx= Vo(0500. SX= Voius Bot y= WsinOut - Egt? 当Vy=0 >t= bosinou Xi= vosinou y= Vosinou 设第二块碎片速度V.动始导恒. M1x = 20+21 => V1= 2VX= 2V610500. 1= 100 sin200 - 1gt2 x= Vit 当/=0=> += Vosinou X2= 2 Vc sin (0.10500) 技 S= Xi+X2 = 3102 sindo10500=119 m.  $\Sigma F = \emptyset \left\{ \begin{array}{ll} M = mg & \emptyset \\ M = f_2 & \emptyset \end{array} \right.$ > mgd.sing=N1. Lloso 3

 $0084 \Rightarrow Hs = \frac{f_2}{N_2} = \frac{d}{dt} = \frac{q}{\sqrt{L^2 - q^2}} = 0.217$ 

16/7: 12= MSN2

$$= \frac{m^2 k_3^2}{2(2/0+m)} = 4.9 \times 10^{-3}$$



$$T_1 = \frac{GM+M}{(2R)^2} + \frac{GM-M}{(2R+R)^2} = \frac{23}{100} \frac{GMm}{R^2} = 1.75 \times 10^8 N$$

6. 设物块之储量的。

T=211/19 >> m2= K(211)2 =0.75 kg 设物块1户弹速度1.物块2.12.

动量净恒:

m1/0 = M2/2-M1/1.

有得到过。

=m1/3==m1/2+=m2/2

环红斑得 VI= m2-m1 Vo

=1.30 m/s

之后传染物.

$$\begin{cases} h = \frac{1}{2}gt^2 \implies d = V_1 \sqrt{\frac{2h}{g}} = 1.8 \text{ m}. \end{cases}$$

٦. S P. P. 7

$$f = \sqrt{\frac{2k}{P15}} \frac{2k}{L_1} k = 1,2,3 - \cdots$$

0

(a) 由外普勒致区:

(6)由多普勒效应:

PA=7.5XISPA PB=1.0XIOSPA.

(a).初始.理型各种达新生

「PA・VA= UA PTA   

$$PB \cdot VB = UBPTB$$
   
 $PB \cdot VB = UBPTB$    
 $PB \cdot VB = UBPTB$    
 $PB \cdot VB = UBPTB$    
 $PB \cdot VB = PB \cdot VB = PB \cdot VA$    
PTB

IPVA=VARTA 24+VB=VA+VB
IPVB=VBPTB

₩=0.

10. Vc=8Vb

a->b. 等序迁程:W=0.

の=
$$\nu(v(T_b-T_a))$$
  
 $b > c$  (記述 の=0.  
 $PbV_b^T = PaV_c^T$   $V = \frac{5}{3}$   
 $c > a$ . 等压対程.  
 $\frac{Vc}{T_c} = \frac{V_b}{T_a}$ .  
 $C_1 = \nu \frac{2}{3}R(1 - \frac{Pa}{12b}) \frac{PbV_b}{2\sqrt{R}}$ .  
 $= \frac{2}{3}PbV_b [1 - \frac{V_b}{V_c}] = 1472 ] > 0$   
 $C_2 = \nu \cdot \frac{5}{3}R(1 - \frac{V_c}{V_b}) \frac{Pa}{Pb} \cdot \frac{PbV_b}{2\sqrt{R}}$ .  
 $= \frac{5}{3}PbV_b (1 - \frac{V_c}{V_b}) \frac{V_b}{V_c} = -354 ] < 0$   
(学上 (a)  $C_1 = C_2 = C_3 = C_4 = C_5 =$