```
习很六
1. C 2. C
                 3 B
4. - 0.5
 5117 / A =: | 00 cos cet, = 1 = 0 cet; = 0
    \vec{v}_{\alpha} = \frac{d\vec{r}}{dt} = -\alpha \omega \sin \omega t \vec{i} + b \omega \omega s \omega t \vec{j} |_{\omega t = 0} = b \omega \vec{j}
     = Exa = = m(Va) = = = m62w2
     在B.5. (cos wt)=0 = (wt)=7
     \overline{V}_R = \frac{dr}{dt} |_{wt_1 = \frac{r}{T}} = -\alpha w i
      ERB = 5 mVB = 1 mazur
  (2) \vec{a} = \frac{d\vec{v}}{dt} = \frac{d\vec{r}}{dt^2} = -\alpha w^2 \cos w t \vec{z} - \delta w^2 \sin w t \vec{j}
      F=ma=-aw2mcoswti+(-bwmsinut.j)
       \overrightarrow{\Delta x} = \overrightarrow{AB} = (-\alpha, b) \overrightarrow{F_1} = (-\alpha w^2 m \cos wt, o)
                           \overrightarrow{fy} = (o, -b\omega^2 m \sin \omega t)
      Wx = Fx · AX = a co coso t
      Wy Fy - DX = - b'w cince
      Wx = 50 Fxdx = 50 (02mxdx = 2 W2ma2
      Wy = Jo Fydy = Jo wimydy = - = wimb
6.(1) 波達度拍等对好好速度的大小物心, m, v, +m, v:m, v.
      WIT = = 1 K/2 W1 = = (m, + mi) V1 -0 >) V1 = = 1/kx.
           ナ州、ひ、チェルンシャナルベーラ州、ひ、びこれ解行ひ、二八二十九
            由ったがきっていかしいといっていますいか
   に)由机械配守恒 X=云ね
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习教七 5. (1) SwdW = - St-a - 1 - a - x mg de dx W= - umg (L-a)2 (2). Wa = 9 mg (l-a) + l-a mg. L-a NG+W+ = 1mv -0 $v = \sqrt{\frac{(2al+l^2-3a^2)g - \mu g(l-a)^2}{}}$ b. N=mr, f=-MN=ma. :- umv = m-dv - 11 v2 = dv de R = 10 dv v -- 11 v = dv : Ju to dv= 5 - MdB 解得 V= V. e-Mx : + W= = = mv - - mvo = = = = mvo (e-24x -1)

7821 and (m+14) - 1/20 - 4
1.A 2.A 3. 52mV 西偏有450
4 Foti Foti Foti mit mit mit
5 $\vec{l} = m(\vec{v_B} - \vec{v_A})$ $ \vec{l} = m(\vec{v_B} - \vec{v_A}) = 20\sqrt{2+12} \times 0.02N.5$
[]=0.4/2+5 NS,方向侧侧指向左下,与x轴或9角
Man mid by min inter \$. \$ tan 0 = 52
6. 中子方向动室守恒. Mvo=(M+m)v 0
由就是早起 Mrng Lmin = 2(M+m)V= = MVo2 Q
00张主旗程 Limin = MVo 2(M+m) ug
100 - 100 - 100 - 100/15
习颜九
1-C 7. C
3(1)3×10-35 (2) 0.6 N·s (3) 2×10-3 kg
4(1) mv, (1) 坚直向下
大水下滑时、Mgling= 文Mvi, Vo= Szglsing, 沿部面向下
子舜朝中本块过程中,在沿斜面上方向动堂守恒
设治斜面的下方向为正。
$MV_{2}-mV\cos\theta=(M+m)V_{1}$
A CONTRACTOR OF THE PROPERTY O
U = Mrglsing -mvcost
ひ、= MJzglsing -mvasb M+m 6.(1) M与m级的系统化本等方向记标等下向
6.(1) M与m组成约至领征水平方向元种管守恒
6.(1) M与m组成约至颁化水平方向元材量守恒 设水平向方方向为正。

 $V = V_1 + V = (N + m) \int \frac{zgR}{M^2 + Mm}$ $(2) \quad V - mg = m \frac{v^2}{R}$ $N = mg + \frac{m(M + m)^2 29}{M^2 + Mm}$