22920192204097 夏雨娟

解; ii) 由下=R(usuti+sihuti)可图

7 = Rosut, y = Rsinut

自治生行

x+ y= 22

· 及主的動きな設めデナザニア

(2) $\vec{v} = \frac{d\vec{r}}{dt} = -wR \sin t \vec{i} + wR \cos wt \vec{j}$

V = \(\int\)^2 + (wR ws wb)^2

= WA

: 及主的連接力・び=-WR sinut i + WR WS ntj 連算力 WR.

(2) [j = ux(t=g) 以真此音系面的智能管之.

क्षति, क्र धिकि निक्ष प्रकार देति। १४.

情格的知的 W= -
$$\int_{1}^{1} \mu \lambda (1-y) y dy$$

= $-\left(\frac{\mu \lambda I^{2}y}{2} - \mu \lambda I y b + \frac{\mu \lambda y J^{2}}{2}\right)$
= $-\frac{\mu \lambda I^{2}y (1+2\mu_{0})^{2}}{2(1+\mu_{0})^{2}}$

由的量守恒的

$$\lambda 19\frac{1}{2} - \lambda 19\frac{1}{2} = \frac{1}{2} \lambda 10^{2} + \frac{119}{4} \frac{119}{$$

由战量守在四:

$$mg(\frac{1}{2} - \frac{1}{2} \omega_3 \omega^2) = \frac{1}{2} \int w^2$$

22920192204097 美雨帽

四、解: 设戴之一边的在设制户,体充为以、设存为了,为逻辑的是为型。 氧之一边在强制区,体致为以、没有为T2、物质的量为型。 切已知识: V(2×2、P(2P2 , T,2×50k, T2=621k)

P1 > 1 = M, RT,

 $\left(\frac{m_1}{M_1} p T_1 + \frac{m_2}{M_2} p T_2\right) = \left(\frac{m_1}{M_1} + \frac{m_2}{M_2}\right) | 2 T$ $T = \frac{2500}{7} k.$

· 玄辉 7的极 天 而中之体;此 与 后 而 沒養 为 200° k .

夏雨湖 22920192204097 (5/7)

$$\frac{1}{2} \cdot \frac{6^{\frac{3}{2}}}{1!} \cdot \frac{11}{1!} \int_{0}^{\infty} f(v) dv$$

$$= \frac{1}{2} \times V_{0} \times a \times 2 + V_{0} \times a = 1$$

$$\therefore a = \frac{1}{2V_{0}}$$

(2)
$$\frac{1}{V_1 - V_2}$$

$$\int (v) = \begin{cases} \frac{1}{2V_2} & V & 0 < V < V_3 \\ \frac{1}{2V_2} & V & 0 < V < 2V_4 \\ -\frac{1}{2V_2} & V + \frac{3}{2V_2} & 2V_3 \leq V < \frac{3}{2}V_3 \end{cases}$$

二連幸ないなるあからこの的社会 なるさい

(3)
$$\overline{U} = \int_{\infty}^{\infty} v f(v) dv$$

$$= \int_{0}^{\infty} \frac{1}{2V_{*}} v^{2} dv + \int_{V_{*}}^{2V_{*}} \frac{\vee}{2V_{*}} dv$$

$$+ \int_{2V_{*}}^{2V_{*}} \left(-\frac{v^{2}}{2V_{*}} + \frac{3V}{2V_{*}}\right) dv$$

$$= \frac{V_{*}}{C} + \frac{3V_{*}}{4} + \frac{7V_{*}}{12}$$

$$= \frac{3V_{*}}{2}$$

$$\therefore 11.3 \text{ To } \frac{2}{3} \sqrt{D} \stackrel{?}{=} \frac{7}{3} \stackrel{?}{=} \frac{3V_{*}}{2}$$

22920192204097 美雨峭

7. 47.11) 1. = 4.3 × 10 m . U= 0.8 c = 0.8 x 3 x 10 8 m/s

1= 10 Ji-v/c2 = 3 10 = 2.580 × 1016 m.

·飞鹤中的观察各种的地对和海里之间的距离为2.580×10°m.

(2) $t_1 = \frac{21}{V} = 3.583 \times 10^8 \text{ s}$

· 按地址上前中计算, 飞野往至一次第 3.583×10°5

13) to = 21 = 2.150 × 1085

· 扩散的加种计等、飞跃钻道-双落 2.150 ×10°5.

22920192204097 美雨峭

$$t \cdot 68^{\frac{1}{4}} \cdot (1) \qquad a_{y} = -k v_{y}^{2}$$

$$\frac{dv_{y}}{dt} = -k v_{y}^{2}$$

$$\frac{-\frac{1}{v_{y}^{2}}}{dv_{y}} = k dt$$

$$\frac{1}{v_{y}^{2}} - \frac{1}{v_{y}^{2}} dv_{y} = \int_{0}^{t} k dt$$

$$\frac{1}{v} - \frac{1}{v_{z}} dv_{y} = \int_{0}^{t} k dt$$

$$\frac{1}{v} - \frac{1}{v_{z}} dv_{y} = \int_{0}^{t} k dt$$

$$\frac{1}{v} - \frac{1}{v_{z}} dv_{y} = \int_{0}^{t} k dt$$

(2)
$$\frac{\partial y_{3}}{\partial y_{3}} = -kv_{3}^{2}$$

$$\frac{\partial v_{3}}{\partial y_{3}} = -kv$$

· 运动是入水的降益为量。m.