WIF P.AV 1 mac next - Ry () - () 100 MA

w= Ju pdu = V, -> 100, 41.85k

 $P, V_1 = nR7$ 41.85×103 202.68

nR7 lm/o 7= 41.85×103 41.85×103 2×3.3/4

n= 1 mol 108=W

 $(2) \sqrt{94} = \sqrt{19} = 0$

P/->756 12812 P2 h=100/

m= 27 (24 = 50) 7 = 1

华、图略:海路水的特种。

$$\Delta H = \Delta U + \Delta (pV)$$

 $\Delta H = \phi H - \phi (pV) = \phi H - \eta P T$
 $= 40.67 \times 16^3 - 1 \times 8.314 \times 373.1$
 $= 37.57 \times 16^3 J.md^{-1}$

5.
$$\Delta H = \Delta U + \Delta (\beta V)$$

$$= -92 \times 10^{3} + (-2) \times 8.314 \times 288.15$$

$$= -96.96 \times 10^{3} \text{ J.m.}$$

6.
$$7 - 43.15k$$
 $P_1 = 5 \times 10/325k$ $V_1 = 2L$
 $P_2 = 164 \times 10/325$ $V_2 = 10L$
 $W = 164 \times 10/325 \times (10-2) = 8/0.5$
 $SU = SU = 10/325 \times (10-2) = 8/0.5$
 $SU = SU = 10/325 \times (10-2) = 8/0.5$
 $SU = SU = 10/325 \times (10-2) = 8/0.5$

$$\Pi = 2 \quad C_{um} = 20.78 \text{ J. } k^{-1} \cdot nd^{-1} = 323k \quad V_{1} = 100k \\
\Delta S = \int_{71}^{72} \frac{nC_{um}}{7} d_{7} + \int_{V_{1}}^{V_{2}} \frac{hR7}{7.7} d_{7} \\
= 2 \times 20.78 \times \ln \frac{423}{523} + 2 \times 8.34 \times \ln \frac{150}{100} \\
= 2 \times 5.61 + 6.74 = 17.96 \text{ J. } k^{+1} \\
\int_{0}^{\infty} \frac{1}{7} = \int_{0}^{\infty} \frac{du + \delta uv}{7} = \int_{0}^{\infty} \frac{Cv}{7} dv + \int_{0}^{\infty} \frac{dv}{7} dv$$

D=0.5 mol 70= 300K 0 = 101325 Pa 大海の変数 0 300K 30/ 一个是一个 7600K

3 Q, AU, AH, AS Cv=20.79 J.K-

(三大) の= ルーノ su=0] Pd1 AM, = 0 8 <u>~</u>

 $V_0 = \frac{nR70}{P_0} = \frac{0.5 \times 8.34 \times 350}{10/335} = -12.32$

au= Qu= Qz= w= J pdu = 0 1 7276 (77) = 3/18.5] 20.79 x0.5 xk

= MA nculm 7 3/18-5 su +s(pu) + (nR72 0.5×8.214 × (600 - nR7, 0.5x 20.78 lm. 300 200 3/18.5 + 7.2J

Q = Q. + Q2 アーア/ナダー 11127 ///2 3/18-5

I TY 245 45/4052 Q-W= 3/18. SH, + SH2 = 4365.67 2 = 10.9]

段者なり 10.5×20 かついかか 7.2 + 78 m 600 3,7 401 nR Con Vi 0.5 x 8.3/4 (m/2.3 (状态建筑, 污垢结点

千万万万人人)

9 25= nCy (m-72 + nR = 2.95 + 0.5×8.344 (m 400) = = 0.5×20.14 400 + 0.5 x 8.814 x m

70, 200-0 12421- 273-15 201-0-1246.008×103 153810天下加 SEE 20

2 so2(9) t -300 Ja 02 (9 250(9)

 $\Delta_{I}(G_{m}) = 2\times(-27!.1)$ 300·/9) =

J= (Ros/pa) 2 (Por) 2 4Gm = - R76mk 广, 成本朝生游、田市为海电行 72 7.0×/6

Sydn= AG +R76nfa = /30.38 ×103 + (-= (-604.06-394.36+1/28.8) x63+ 325

0

Ditt T (S) (S) 213.6 393.5/ 39436 39.75 604.04 635.09 mas t acres -929 = 160.45 J.K-1 -(-1206.9) = 178.3×1003 - (-138.8) = 130.4 ×103 J

RT/mk = 1) O Arlan S. A -t3.6 = /.43×/0-33

港军里 293、15 288.1KK & AH >0 R. SK. K. なる 为为海外体军中10元的压力强物、即栖的一场以海水体军中10元的

-396.6 HAC 0 27.2X/ ++ 18.02 = C-10.97 -3624 = 1.72 × 10-5 a, Gm = -3684 + 38.6 = 27.

15. $N_2(g) + 3H_2(g) = 2M_2(g)$

(-33×103) 2 X (-16.5) 2881X 83/4 = 613.31 = 6.0×105 =33 KJ

 \mathcal{D} m/2 应法都正为的进行 界生机

ON HAS I 6.0×103 63(2) 2×(mte 8.314 Ŵ K W 120 / 140 = -480 X8.34 CH2. A M 28x 10] K(450K)=2/3 、放金额发世行行经 - 92,22 KJ -- 288//5) = -12.55 #

13. (1) P6I2 100 ml 4 20 / 1.07 g Macl 6.26-X X D-8 X [MO][00 说的"加州"的"为"。 HOD+ KO= HO + CO. mp#=14-62.5×10-3-8-6.06 - (4.2×10-4.2× My + MO = My + My tho = pH = 14 - 6 2.65x10-+ Compa = 1:07 / 0.1 = k=1.77×10-5= J- ONX J= 20.05 2000 X -Ksp =/. >>×/0-10 K6 = 1.71/10-5 7= 0:01 Kg=8.48×10. $[on 3 = x = 2.65 \times]$ K8-2, 8x 5.45 0.06 0/x 525 0.2+X THUOD

(2) (6.0 × (0-2)2 x S Ky= 348xco 8 Phas Maz #8 [B+7 = (Z-1-X = 0,2 1) ħ X ## Bit = 0.2 ml/ 2.06 × 10-4 mod/2 8.49×10-8 = 2.36×10.6 md/L

ニーク·メンル ニ K=1.77×10-\$ X-1.0 Ms + tho $= \frac{x^{2}}{\sqrt{2}-x} = \frac{x^{2}}{\sqrt{2}-x} = \frac{x^{2}}{\sqrt{2}} - \frac{x^{2}}{\sqrt{2}} = \frac{x^{2}}{\sqrt{2}}$ Met 17. COM J= x = 8.32×10 4 md/

白伤各个充法 K= 1.77/10-5 Ky=5.6/x/0 /2 0.5 × COH-3 : [OH] = 4.74 × 10 6 rd/2 CM4+][OH] = 4.74 × 10 6 rd/2

23 My こと 一(神知) 0.187 mol/

(2)(142+)=1.12×10-4 mil/ (川水中)活牌野村 Malon) 2 Ksp= 6.61 × 10-12 1/1/ COH]= 2.24×10-4 mol/ -4-1// COH]= 2.24×10-4 mol/ $K_{Sp} = CM_0^{*}.)Con^{*} = \times .(2x)^{2}$

(3) box 0 of mod / (2) Ksp = [18"][07]= x. 0.0/mol/2 /8/2 /5p= 0.0/ [647] = 0.0/ [647] = [647] = 2.4×105mol/2 × (. (o.d + 2x)2 12 = 5 6/x/0-8 mol/

1420.0/m//

22. (D) 1/ 8 o. 1 md 1/m 40 or and have in the

$$k_{a}=1.76\times o^{-1} = \frac{x(0.1+x)}{0.1-x}$$

$$k_{a}=1.76\times [0^{-5}] = \times (0.11+x)$$

 $k_{a}=1.76\times [0^{-5}] = \times (0.09-x)$
 $p_{H}=-(g_{X}) = 1.44\times [0^{-5}]$
 $p_{H}=-(g_{X}) = 1.44\times [0^{-5}]$

1/ 0. [md// HAR \$ 20 > 中的Many 10·0

0.1-0.0-x x + 0.01+x Ka=1.76×10-5= X10-4/1= CM+7 x(0.0/+x)

エスリな十七代 マニー× メートイン Ka=1.76 X10-5

图中以上计路到路里的 在名林树水在湖外沿海路、海峡中的人力和 Many 3名 海湖中的山路山外,从外外一个64(34年185日)。

pt = -6x = 3.8