华业3: b. 设 u= u (x,y,z,t)为七础刻在 (x,y,z)处温度 设k为导热系数、an为热力投系数、刚定解问题。 12克方线: Ut- C' AU=0 27142. NIA.4,2,0)=100 边界: K 3U Z = Co (3)-W) Z f=0. 这解问题: ·2次行线· U+- c2 au= 0 (c2= 6×10-7 m2/5) 47,45: WH=0 = 1200 边界: 山るの=0 10. 取运送落价在直线为为轴、起点扩展点、在区间 [九、九]、时间[七、七]]上 版電子4至: 1x, (Pltz-Plt,) dx=- 5t, dt a1 plz-Plx,) $\overline{AP} \int_{t_1}^{h_2} dh \int_{t_1}^{t_2} \frac{\partial P}{\partial t} dt = - \int_{t_1}^{t_2} dt \int_{h_1}^{h_2} \alpha \frac{\partial P}{\partial h} dh$ 图 九七切为经双 故 1/23275\$3: P++ C Px=0 初始: PUNO)=0 (120) 边界· Ptust)=A(Itsinut) (+20)

18.
$$UA = \widehat{U} \cdot \left(-\frac{1}{2} \times t^{\frac{1}{2}} \right)$$

$$UX = \widehat{U} \cdot \frac{1}{16} \Rightarrow UAX = \widehat{U}_{33} \cdot \frac{1}{6}$$

$$\Rightarrow UA - \widehat{C}UAX = 0 \Rightarrow -\frac{1}{2} \times t^{\frac{1}{2}} \widehat{U}' - \widehat{C}^{\frac{1}{2}} \widehat{U}'' + \frac{3}{20} \widehat{U}'' + \frac{3}{20} \widehat{U}'_{3} = 0$$

$$\Rightarrow \widehat{U}'' + \frac{3}{20} \widehat{U}'_{3} = 0$$

$$\widehat{U}'_{33} = 0$$

$$\widehat{U}'_$$