(a) XKH=3/0.8+Xk (b). XKH=/Xk-0.8 小判断这两个迭代格式的敛散性 四人对收金板的进行中区(保制数点后回位)

本题分数 得 分	20 分	三、给定数据表				第3页(共6页)	
		X	-2	-1	0	1	2
		f(x)	0. 25	0. 75	2	5	15
用三次拉格的	日插值计	算 f(0.5) 的近似值	收集网	村 nuaa.s	tore		

本题分数 16 分 四、已知 $S = 4a \int_0^{\frac{\pi}{2}} \sqrt{1 - (\frac{C}{a})^2 \sin^2 \theta} d\theta$,其中 a = (2R + H + h)/2,c = (H - h)/2, R = 6371. 用复化辛普森公式评算 5 源 免 贵 共 = 384, 河 海 军舰 4.等分 c 计算分点的函数值。 π

本题分数 17 分 得 分

五、用梯形公式解常微分方程初值问题:

$$\begin{cases} y' = 8-3y, & 1 \le x \le 1.8, \\ y(1) = 2, & \end{cases}$$

取步长 h = 0.2, 计算 y (1.2) , 免 y (1.4) 字 y (1.6) 和 y (1.8) 的近似值 (保留小数点后 5 位)。

でかく。、人、、、、、人、たる年的時点、Lilx)= 介 xxi 是拉格明时由值基础 数。证明: いう X k Lilx = Xk k=0、1、、、、ハ () Salx x k Lilx = Xk k=0、1、、、、ハ

X5=1.5 x*=1.5 -. AF. (1) 4,0x7- (0.8+x4)3 8. cx= f. (0.8+xy-3-2x 19:(1.5)1= (0.8+1.57) <1 :. 4232 92x)=(x3-0.8)= Prus: 2. - 3x-1x3-0.8 192(1.57) = 3×1.52. 1.53 >1:一发和 JI. FLag Ko=1.5000 kg≈ 1.4153 X=1.4063 X1=1.4502 ¥9=1.4053 Ky=1.4100 Kr= 1.4265 X7~1.405] 4021.40/2 本资源年表共275 XF = 1.4054 FRX = 1.4052

$$B_{J} = \begin{pmatrix} a_{11} & a_{12} \\ a_{21} & a_{22} \end{pmatrix} = \begin{pmatrix} a_{11} \\ a_{12} \end{pmatrix} - \begin{pmatrix} a_{12} \\ -a_{21} \end{pmatrix} - \begin{pmatrix} a_{12} \\ -a_{21} \end{pmatrix} = \begin{pmatrix} a_{12} \\ -a_{21} \\ a_{21} \end{pmatrix} = \begin{pmatrix} a_{11} \\ -a_{21} \\ a_{21} \end{pmatrix} = \begin{pmatrix} a_{11} \\ -a_{21} \\ a_{21} \end{pmatrix} = \begin{pmatrix} a_{11} \\ -a_{21} \\ a_{21} \\ a_{21} \end{pmatrix} = \begin{pmatrix} a_{11} \\ -a_{21} \\ -a_{21} \\ a_{21} \end{pmatrix} = \begin{pmatrix} a_{12} \\ -a_{21} \\ -a_{21} \\ -a_{21} \end{pmatrix} = \begin{pmatrix} a_{12} \\ -a_{21} \\ -a_{21} \\ -a_{21} \end{pmatrix} = \begin{pmatrix} a_{12} \\ -a_{21} \\ -a_{21} \\ -a_{21} \end{pmatrix} = \begin{pmatrix} a_{12} \\ -a_{21} \\ -a_{21} \\ -a_{21} \end{pmatrix} = \begin{pmatrix} a_{12} \\ -a_{21} \\ -a_{21} \\ -a_{21} \end{pmatrix} = \begin{pmatrix} a_{12} \\ -a_{21} \\ -a_{21} \\ -a_{21} \end{pmatrix} = \begin{pmatrix} a_{12} \\ -a_{21} \\ -a_{21} \\ -a_{21} \end{pmatrix} = \begin{pmatrix} a_{12} \\ -a_{21} \\ -a_{21} \\ -a_{21} \end{pmatrix} = \begin{pmatrix} a_{12} \\ -a_{21} \\ -a_{21} \\ -a_{21} \end{pmatrix} = \begin{pmatrix} a_{12} \\ -a_{21} \\ -a_{21} \\ -a_{21} \end{pmatrix} = \begin{pmatrix} a_{12} \\ -a_{21} \\ -a_{21} \\ -a_{21} \end{pmatrix} = \begin{pmatrix} a_{12} \\ -a_{21} \\ -a_{21} \\ -a_{21} \end{pmatrix} = \begin{pmatrix} a_{12} \\ -a_{21} \\ -a_{21} \\ -a_{21} \end{pmatrix} = \begin{pmatrix} a_{12} \\ -a_{21} \\ -a_{21} \\ -a_{21} \end{pmatrix} = \begin{pmatrix} a_{12} \\ -a_{21} \\ -a_{21} \\ -a_{21} \end{pmatrix} = \begin{pmatrix} a_{12} \\ -a_{21} \\ -a_{21} \\ -a_{21} \end{pmatrix} = \begin{pmatrix} a_{12} \\ -a_{21} \\ -a_{21} \\ -a_{21} \end{pmatrix} = \begin{pmatrix} a_{12} \\ -a_{21} \\ -a_{21} \\ -a_{21} \end{pmatrix} = \begin{pmatrix} a_{12} \\ -a_{21} \\ -a_{21} \\ -a_{21} \end{pmatrix} = \begin{pmatrix} a_{12} \\ -a_{21} \\ -a_{21} \\ -a_{21} \end{pmatrix} = \begin{pmatrix} a_{12} \\ -a_{21} \\ -a_{21} \\ -a_{21} \end{pmatrix} = \begin{pmatrix} a_{12} \\ -a_{21} \\ -a_{21} \\ -a_{21} \end{pmatrix} = \begin{pmatrix} a_{12} \\ -a_{21} \\ -a_{21} \\ -a_{21} \end{pmatrix} = \begin{pmatrix} a_{12} \\ -a_{21} \\ -a_{21} \\ -a_{21} \end{pmatrix} = \begin{pmatrix} a_{12} \\ -a_{21} \\ -a_{21} \\ -a_{21} \end{pmatrix} = \begin{pmatrix} a_{12} \\ -a_{21} \\ -a_{21} \\ -a_{21} \\ -a_{21} \end{pmatrix} = \begin{pmatrix} a_{12} \\ -a_{21} \\ -a_{21} \\ -a_{21} \\ -a_{21} \end{pmatrix} = \begin{pmatrix} a_{12} \\ -a_{21} \\ -a_{21} \\ -a_{21} \\ -a_{21} \end{pmatrix} = \begin{pmatrix} a_{12} \\ -a_{21} \\ -a_{21} \\ -a_{21} \\ -a_{21} \\ -a_{21} \\ -a_{21} \end{pmatrix} = \begin{pmatrix} a_{12} \\ -a_{21} \\ -$$

000.501 = . Mg. 近朝 x=-2, 1.3, 134个部... per 0.25 0.75 2 5 Polist= (x+1) x (x-1) = - \frac{1}{6} x(x^2-1) = - \frac{1}{6} (x^3-x) (-2+1)(-2)(-2-1) liun- (x+2) x(x-1) = 1x(x-1)(x+2) (x+1)(x+1)(x-1) = - 1(x+2)(x-1)(x-1) /260= (x+1)(x+1)x = 1x(x+1)(x+2) L3(以)=0.75 lo(x) +0.75 lo(x) +2·lz(x) +5·lz(x) flois) = 4(0.5) = 3, 22

五. 福子:
$$y' = f(x, y) = F - 37$$
 $y_0 = y(x) = 2$ ($x \in 1.9$ $y_{n+1} = y_n + \frac{1}{2}(f(x_n, y_n) + f(x_{n+1}, y_{n+1}))$ $= y_n + \frac{1}{2}(f(x_n, y_n) + f(x_{n+1}, y_{n+1}))$ $= h + 0.((F - 3y_n + F - 3y_{n+1}))$ $= h + 0.((F - 3y_n + F - 3y_{n+1}))$ $= h + 0.((F - 3y_n + F - 3y_{n+1}))$ $= h + 0.3y_n - 0.3y_{n+1}$ $= h + 0.3y_n - 0.3y_n - 0.3y_{n+1}$ $= h + 0.3y_n - 0.3y_n$

 $(x_1 - x_2) = (x_1 - x_3) (x_1 - x_1) \cdots (x_1 - x_2 - x_1) - (x_1 - x_2) = (x_1 - x_2$ (xx) ...(+1/x-x) (x-x) (x-x) (0x-x) (2) $\frac{A}{2} (x_{1}-x)^{K} (\frac{A}{2} x_{2}) = 0$ $\frac{A}{2} x_{3}^{K} (\frac{A}{2} x_{3}) = 0$ $\frac{A}{2} (x_{1}-x)^{K} (\frac{A}{2} x_{3}) = 0$ $\frac{A}{2} (x_{1}-x)^{K$ 1/2 (M) = 2/2 X, (x) / X, (x = 0,1) 2 ... N) 具有 x= x0, x1··· xn 共n+1个建定, 为不超过几次多成式 市加加多配式

- Kunnate Watermanstore (Rx) トラー 大 CK (比) X = (Rx) トラ - SERCAXI (KM) HIGH I TO CAE X (K-M) TX) (B