recur Equeriol, Nº 62431, equyun 2, Cu Marringerseen justin Nº22. 13. § x=2x-y+2y* a) Flaregiero pabrebecremo novan pa come 1) Hammense suscisse quitouscepeus per comme d'acassesses на ненузсвана ревновесно несена дорогова нима на 6) | x = 2x - y + 2y" => f(x,y)=2x - y + 2y" => g(x,y)=x-y" => => |2, -y+2y=0 => |2y-y+2y=0 => |2y2+y=0 | x=y | | y,=0, 2y,+1=0 | y,=0, y==-\frac{1}{2} | x,=0, x==-\frac{1}{2} (x, y,) = (0,0), (x2, y2) = (-1/2, -1/2) fx(x,y)=2 togstage fx'(x,y)= 4y-1 Sy'(x,y) = -1 Ax (x,y) = 1 $\theta = \begin{pmatrix} \frac{df}{dx} & \frac{df}{dy} \\ \frac{df}{dx} & \frac{df}{dy} \end{pmatrix} = \begin{pmatrix} 2 & y^{-1} \\ 1 & -1 \end{pmatrix} = \gamma P(2) = \det(4 - 2\epsilon)$

P(-3/-3)=(2 -3) [R12 = 1 + J5] + = P.E = (2-P -3) P(P) = (2-2)/-1-7) +3 P/P) = -2-20+0+82+3 P/P)= n3-2+1 PHA = 1 = 1 = 15 1/31 3a & P, 12 eR u p. >0, R2 KO probledectionna motion e egoso n'e regamente 30 () Re, Pat of polycolecono mo com e Hey weditules (Heyens it the goings?

As- Sug-uxx=0, 0 < x < 3, 120, u(x,0)= sin = x + sin(#x), 0 < x ≤ 3, u(0,t)=0, u(s,t)=0, t >0. 4 = 4x => x=1 L=3, 4(x,0)= 8(x) 9/x1= sin 11x + son (7xx) u/9/t)=0 , u/3,t)=0. 9/0) = 9/3)=0 4(x,+)= X(x) T(t). XT'= 62 X"T $\frac{T'(t)}{p^*T(t)} = \frac{x''(x)}{X(x)} = -2$ X"(x)+ PX(x)=0,0<x< B, x(0)=0, x(3)=0. RK = (XK(x) = SUN = X, K=1,2,3,---Bo T(t) very where yeathere on atjet jeg, who years have you R= Rk: Tritt+ 22 Ru Tritt=0 c prevent Tritt= Che - 22 Pat Flower wary to be the per previous to gopernous soportion $(x,t) = \sum_{k=1}^{\infty} c_k e^{-\left(\frac{kT}{L}x\right)} e^{-\frac{kT}{L}x} \int_{0}^{\infty} c_k e^{-\frac{kT}{L}x} \int_{0}^{\infty} dx$ Thomas za recurer coops everificanine un jurdire une ten zorgano wery colores or

$$C_{R} = \frac{2}{3} \int_{0}^{1} \left(\sin \left(\frac{\partial x}{\partial x} \right) + \sin \left(\frac{\partial x}{\partial x} \right) \right) dx.$$

$$(\alpha(x,t)) = \sum_{k=1}^{\infty} C_{R} e^{-\left(\frac{\partial x}{\partial x} \right) \cdot \frac{1}{4}} \sin \left(\frac{\partial x}{\partial x} \right).$$