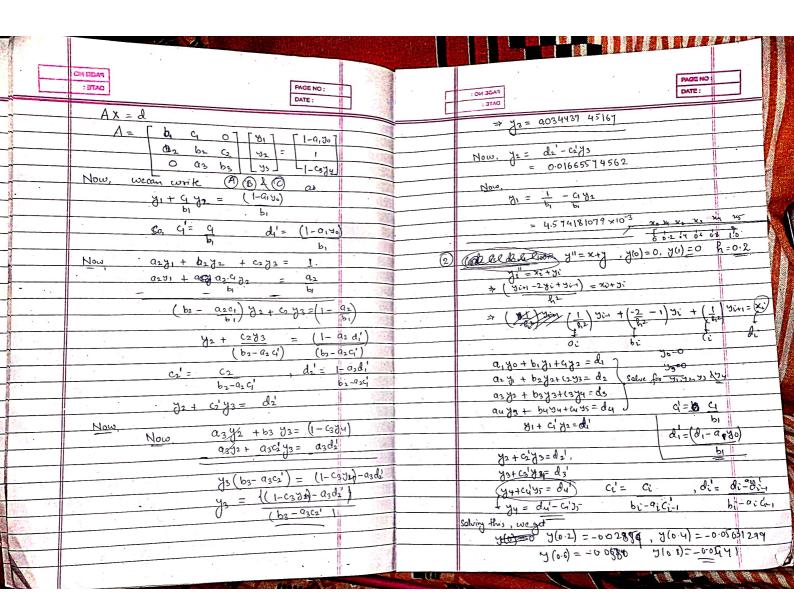
	PAGE NO: DATE:
	$0 \chi^2 y'' + \chi y' = 1 \qquad y(1) = 0, y(1.4) = 0.0566$
	$\chi_0 = 1$ $\chi_1 = 1.1$, $\chi_2 = 1.2$, $\chi_3 = 1.3$, $\chi_4 = 1.4$ $\chi_0 = 0$. $\chi_4 = 0.0566$
	Mow, let's discretize the ODE using B.C.s.
	$\chi_i^2 \gamma_i^4 + \chi_i \gamma_i^4 = 1$
	> xi2 (Hit - 241 + 41)
	$\Rightarrow \chi_{i}^{2} \left(\frac{y_{i+1} - 2y_{i} + y_{i-1}}{h^{2}} \right) + \chi_{i} \left(\frac{y_{i+1} - y_{i-1}}{2h} \right) = 1.$
	į̃=1, 2, 3
1	$\frac{1}{2} \times \frac{1}{1} \left(\frac{1}{2} - \frac{1}{2} + 1$
	$- \frac{\chi_{2}^{2} \left(\frac{1}{3} - \frac{2\eta_{2} + \frac{1}{3}}{h^{2}} \right) + \chi_{2} \left(\frac{1}{3} - \frac{1}{3} \right) = 1. \text{(1)}}{h^{2}}$
	$\chi_3^2 \left(\frac{74 - 273 + 72}{5^2} \right) + \frac{\chi_3 \left(\frac{74 - 72}{5} \right)}{25} = 1 - 1$
	a a
	$\frac{\chi_{2}^{2} - \chi_{2}}{h^{2}} = \frac{\chi_{2}}{2h} + \frac{(-2\chi_{2}^{2})}{h^{2}} + \frac{\chi_{2}^{2} + \chi_{1}}{h^{2}}$
	INC.
	$Q_i = \chi_i^2 - \chi_i$, $b_i = -2\chi_i^2$, $C_i = \chi_i^2 + \chi_i$ h^2 $2h$ h^2 $2h$
	Now and have buy - 1 + a, 70 B
	$a_2y_1 + b_2y_2 + c_2y_3 = 1$
	azy2+ bzyz= 1-azyy @



	=> y3 = 0034437 45167	
	Now, y2 = d2 - C2/y3	
	= 0.01665574562 Now,	
	$\frac{\partial l}{\partial l} = \frac{1}{b_1} - \frac{c_1 y_2}{b_1}$	
Control of the contro	= 4.574/8/079×10-3	ny ris
2		11
	At - M Of	h = 0:2
	h2	
	$\frac{1}{2} \left(\frac{1}{R^2} \right) y_{i-1} + \left(\frac{-2}{R^2} - 1 \right) y_i + \left(\frac{1}{R^2} \right) y_{i-1} + \left(\frac{1}$	yin=(xi)
	où bi (i	di
3	a, yo+ b, y, +4y2 = d, y=0 a2 y, + b2y2+ (2y3 = d2 Solve for y, y2 y3 x74	
	a3 y2 + b3 y3+(3 y4 = d3 Solve for y1, y2 y3 274 a4 y3 + b4 y4 + 64 y5 = d4 G'= 6 C1	
	au /3 + by yy + cy ys = dy) c'= 6 C1	
	$d_1 = (\theta_1 - \alpha_0 \gamma)$	(0)
	y2+C2'y3=d2', b1 y3+C3'y3=d3'	_
	(y4+c4'45 = d4) Ci'= Ci , di'= d	
	solving this, we get	-ai Car
	y(0)=0 y(0.2) = -002856, y(0.4) = -0.0563	1299
	7 (0.6) = -00580 7108)=-0-0141	

