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COMPATATIONAL MATROMATES LE
J Ff(r)
           Temperatur

T = T (xy, z t)

April 1

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                 \begin{aligned} & \mathcal{X}_{n,n} = r \, \mathbf{x}_n \, \left( 1 + \mathbf{x}_n \right) \\ & \, \mathbf{x}_n \, \epsilon \, \left( 0 , 1 \right) \\ & \, \mathbf{y}_n \, \epsilon \, \left( 1 \right) \\ & \Rightarrow \mathbf{x}_{n,n} = r \, \mathbf{x}_n - r \, \mathbf{x}_n^{-1} \\ & \approx r \, \mathbf{x}_n \\ & \, \mathbf{x}_n \, \epsilon \, \mathbf{x}_n + r \, \mathbf{x}_n \, \left( 1 - \mathbf{x}_n \right) \end{aligned}
                   Fixed points
                      When is Xnn = Xn
                                    \Leftrightarrow \chi_{n} + r \times_{n} (1 \times_{n}) = \chi_{n}

⇒ (x<sub>n</sub>(1-x<sub>n</sub>) = 0.

\begin{bmatrix}
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\end{bmatrix} \Rightarrow x_n = 0 \text{ or } x_n = 1.

                                                Wort to find a function
                                                             \frac{dy}{dt} = y
                                                             or \frac{d^2y}{dt^2} + \frac{dy}{dt} = t + y^3
                                                acned form
                                                      F (t, y, y', j") = 0
                                                   1st order problem can be written g' = f(t, y) Given. Find g(t)
                                                              Tay be series permits an approx

y_{n+} = y_n + \Delta t f(\xi_n, y_n)
For and Enter

Explicit Enter.
                                                                            \frac{dy}{dt} = y \implies \int \frac{dy}{y} = \int dt
                                                                                                  \Rightarrow \log(y) = t + c
                                                                                                =) J = c+c,
= c+c,
= czet
Conttitutorow.
                                                                                                       I.C. 1= 100 = Cze° = Cz
                                                                                                                ° , y(t) = e t
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