Evereise 4 Problem 3 A) Iteration in plot: $x_{i+1} = \mu \times (1 - x_i)$ Newton iteration: Mark (1) and (2) as $\mu(x_i - x_i^2) = x_i - \frac{F(x_i)}{F'(x_i)}$ (-> \f(x;) - \mu x; + (\mu - 1) x; = 0 \ \land \land \f'(x;) O / - 1 / - 1 x 2 + (p - 1)x 2 (-> f(xi) + (-)xxi2+(yi-1)xi)f(xi) = 2-> $f'(x_i) + \frac{1}{-\mu x_i^2 + (\mu - i)x_i} f(x_i) = 0$ y = F(x;) $\rightarrow \frac{dy}{dx_i} + \frac{y}{-\mu x_i^2 + (\mu - i)x_i} = 0$ Homogenic equation. $\frac{dy}{y} = -\frac{dx'}{-\mu x^2 + (\mu - i)x'}$ (-> In |y| = - \(\frac{dx_i}{-\pi x_i^2 + (\pi - i)x_i} + A = (e [- (dx; -1)x;]

This formula has undefined velues with In(o) terms

Hodify:

$$f = e \left[\frac{\ln \{\mu(x-1)+1\} - \ln(x)}{\mu^{-1}} \right]$$
 $e \left[\frac{\ln \{\mu(x-1)+1\}}{x^{-1}} \right] \rightarrow No inerovement!$
 $f = \left(\frac{\mu(x-1)+1}{x^{-1}} \right) \frac{1}{\mu^{-1}} + \frac{1}{\mu^{-$