DS 1 P. 1 Denstetional Fernantis Ou. 1 f 89 15 GW (a, i) BARG. Fredentia lypotheris: 2f. f"(L) is cts. Base case h=0. If. $f'(1) = \lambda f. \perp a$ constant function to clearly cts. Thouse step. Assume iductively that 2.f.f. (4) is the The function If fortours as $f \mapsto (f,f) \mapsto (f,f'(1)) \xrightarrow{\text{avalu}} f(f'(1)) \xrightarrow{\text{f}} f(f)$ ble comportion of cts. function. It is kerefine etc. (ii) $\left(\bigcup_{n} \left(\lambda f. f'(L) \right) \right) \left(g \right)$ = Ly g"(1) as luter of fis are got pturic. = fix(g). there as g is anhatany $fx = \prod (\lambda f.f'(t))$ 16, in P, x: 2 + t: 2 T - Wecx: T. E: 7

(iv)
$$fix_{\epsilon}(f) = f(fix_{\epsilon}(f))$$

None $f: (fz] \rightarrow (fz) \rightarrow (fz)$
19. $fix_{\epsilon} = \lambda f. (fix_{\epsilon}(f))$

Thus we can define fixe as we F. $\lambda f. (F(f))$.

