Den. Sem. On 1.

(1.) Soundner :

If the the It I = IVI

B Adequary:

If It I = Iv I for t a dood kin of ground type bool or wit and v
a value of the same ground type,

then they amonding to be openhand samontor.

& Full abstraction:

Two terms ove contextuely equivalent iff they have the same denotation.

Thus ti, to of the same type are contextally equivalent if for all ground contexts EC-J (is eastert of type bod a cut) ECt,) Iv if ECt,) Iv.

(2) Let $f: D \rightarrow D$ be a continuous fur. an a domain D. Let Q(x), x + D, be an admissible property then, $Q(f_{xx}(f))$ if $\forall x \in D$. $Q(x) \Rightarrow Q(f(x))$.

(3) We require

i, h(L) = Lii) $S = K(x,y) \in D \times E \mid h(x) = y^{3}$ chain closed.

ii) is clear as h is strict.

iii) hypere $(x_{0},y_{0}) \in \cdots \in (x_{n},y_{n}) \in \cdots$ and $(x_{n},y_{n}) \in S$ all h. Then, $h(L x_{n}) = L h(x_{n})$ (h of h) $= L y_{n}$

... (Uxn, Uyn) ES. I.e Shidami -dased.

(4) Use fixed pt. induction in the inclusive. property Q(x,y) Easy h(x)=y. (fix(f), fix(g)) = fix(e) where $\psi(x,y) = (f(x), g(y)).$ By f.p.i. it while to show Q(x,y) = Q(Y(x,y))ie Q(n,y) =) Q(f(n), g(y)) for all x & D, y & E. But h(x) = y = f(x)=) gh(x) h(f(x)) = g(y)as hof = goh.