Manorial on set Marold (ham-sot, (o)) blun operacy/morphism: (X):: a > b > axb unit object: () termil object prove terminal object is the unit object under product (X) poort Pida of Unital State Sand Good prove a is isomorphic to the produce of a und (). by definite of termed object There is a unique marphism from any object to termble object: by definition of Calegos There is a unique morphism from any object to it solf: id :: forall a. a > d firall continue object to which has an arrow ? to a , on arrow unity to (). There is a unique morphism from 6 to a . P. P= ida - P, unit b - unit a p P.

aproduct porten mathy ase all of  $\begin{array}{c} \alpha \longrightarrow \rho \ a \\ b \longrightarrow \gamma \ b \end{array}$ Both Product and Coproduce are Bisweers: CxC > C (x) and have a unit object: the tarmin object of (. => Both Produce Category and Co Produce Category are Monarda (Category the terminologiest of C. Manoral Calegory of Calegory Markoldal Calegory is a Calegory of one object, which is of one olfart, which is a Calegory. 8.1 on see. appoint, manyey

