

1 Monados ( & elomre genetors). Det A multiple on a posit P is en emberganets T: P  $\rightarrow$  P such that 1)  $P \leq Tp \qquad 1 \leq t$ 

2) 
$$Tp \ll 1p - T + 3T$$
  
 $Pmk T^{2} = T$   
 $t) \Rightarrow Tp \ll Tp$ .  
 $2) \Rightarrow T^{2} = T$ .  
Rick The original name was  
 $Bright (T, Y, Y)$ .  
Examp X is a typological spece  
 $d: 900 \rightarrow 900$ . (300, C).  
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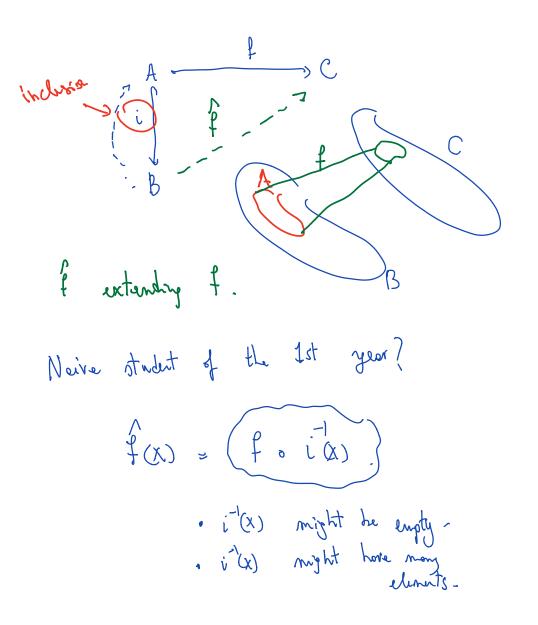
Def An elgebre for a monoid T  
on a port P is an element  
$$p$$
 such that  
 $T_p \leq p - + existence -$ 

$$\frac{Proof}{p \leq Tp} \quad (1) \text{ Axium of multiple} \\ 1 \text{ In } \\ p \\ Tp = p -$$

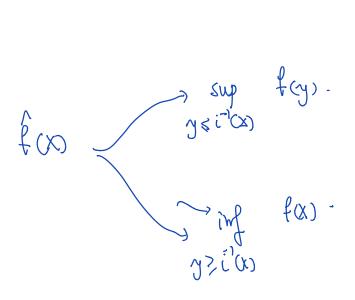
Prop the inclusion 
$$Alg(T) \subseteq U \neq P$$
  
elsepis has a lift adjoint.  
("T":  $P \equiv Alg(T) : i$ .  
Proof  
 $\frac{Alg(T)(Tx, y)}{Alg(T) : i} \geq P(x, iy) -$   
 $dx \leq y \leq x \leq iy$   
 $\Rightarrow ebv. x \leq dx \leq y$   
 $f = x \leq iy \Rightarrow dx \leq R(y)$   
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 $f = x \leq iy \Rightarrow dx = R(y)$ 

Runk " 
$$Cl(X) \longrightarrow P(X)$$
  
 $Closed sets are "elosed" under
 $orbitrary$  intersection.  
is an instance of i:  $Alg(T) \longrightarrow P$   
preserve el limits.  
 $T: P \longrightarrow P$   
 $P \lesssim Tp$   
 $T_p \lesssim p$   
 $P'(- )P_-$$ 

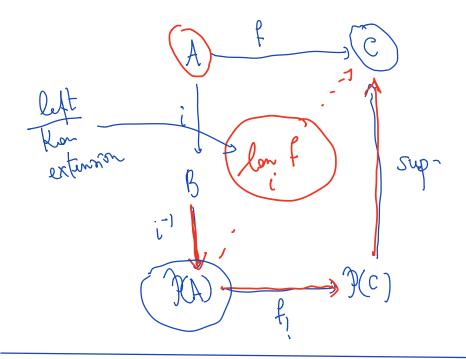
Kor extentions



C is a conflite post.



What did were do?



 $\frac{Rum}{i} = \sup_{i} \circ P_{i}(f) \circ i^{-1}$ ~) rom f = mfr

n

Parati non withtheh



Concrete Company ,

