Jake Dolen A+B=0 there fore O = A

[Jares Boles] (5) 14/7/19

Mpry rports Fail: X+l=0X = [xcx]

try: 2x+ = x

Euler characteristic

via Schanuel:

this solves $X = (0,1) \subset \mathbb{R}$ X = X + |+X

(-)= (-)+.+(-)

ie. $\chi((c,i)) = -1$

Call this X an Euler abject:

X +1 +X => X

510es 1: X -> x

m: | -> x

Believer nettoj : X->X.

Step 1 freely add an y object X. This gives The soructure bypes The

Need a doctrie
with internal how. Step 2 Structure (stage 2) (akgon of Abelievers B in lymge.

Shep 3 property L+m+r ismisonorphise.

In detail: 5tep ? Belief in l: X -> X is

the internal how:

how (X,B) = B'

in the internal how in the internal how (X,B) = B'

is the derivative!

50 lg: B' -> B1

12 this each structure looks like "clicky on a point and transforming it so cho "

Similarly Bor (B: B'->B'.

James Nolan 1 mps to {gbc} three colorings

chick on a point to
advance it's a color: Need to a boc Check this gives a Commutative monad Smorad ops combe Sho 2 (ctd.) Belief in m: hom $(X,B) \xrightarrow{m_B} hom(1,B)$ ie. MR: B' ->B like an annihilation operator: elevent and it es. delete a element I from a list.