



Quel 1st one is not a triengulation of a Ti<sup>2</sup> as risually you can see that the point is does not have everyn directions

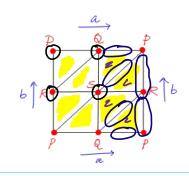
making it flat

as all edges are part of at mor of triayles it is a maisfold

X = 4 - 6 + 4 = 2points expes pare

also we know  $X(TT^2) = 0$ 

This is enough to from not humanpuc.



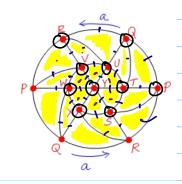
Jud.

$$\mathcal{X} = 10-27+18=1$$
 $\mathcal{X}(\Re^2) = 1$ 

but this is not enough we need  $2^{\times}$ 

to these originality.

X+ orientability -> Complete inversions

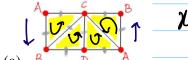


we ned to fid a nöbius strip which can be seen in the merked a son oriantable

-3 X=1 + ruon orientable =3 PFP2

\* Senity close each edge & triangles.





1 = 1 = 1Non originatele.

ne pins 8/12.

K = 4 - 6 + 3 = 1.

this is originable.

havec ile a. \_ ?

(b) B D A

R Q P

 $\chi = 5-8+4 = 1$ .

This is non orientable

hero Rpz

Möbius Arib???