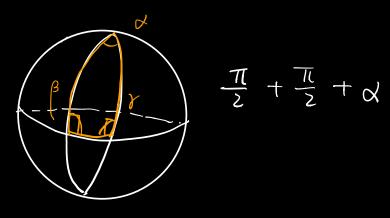
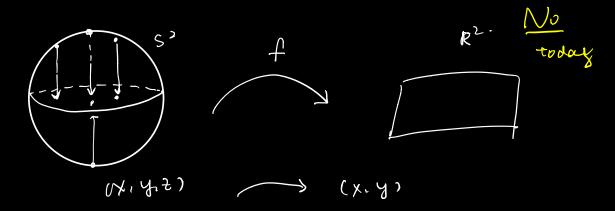
52 2-1 phere R' Eucl. plane Thu let T be a triangle (R², dom) if & B, I are the interior angles 677. The X + B+7= TI angles in R2 R² S²

Thun (triangin S^2) Let $T \subseteq S^2$ be a triangle with interior angles d, β , γ . Then $d+\beta+\gamma=\pi+Area(\Delta)$



 $Q1: Does \exists a bijertion <math>f: S^2 \rightarrow \mathbb{R}^2 S.t.$ f continuous & preceve distances?



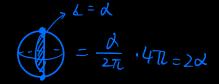
Thm: Let $T \in S^2$ be a triangle, with interior angle X, β, γ . Then, $Q+\beta+\gamma = \pi T + Area(T)$

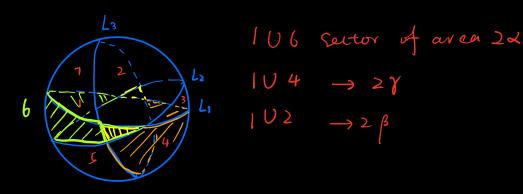
Phono

Area(7): the Yellow region

Let Area(S^2) = 4π .

We know the area of





Sector 807 sector Aaren 27

$$803 \rightarrow 2\beta$$

 $805 \rightarrow 20$

The union of all sectors covers the

2 - sphere, the area(1U2) + A(1U4)

+ A(1U6) + A(8U7) + A(8U3)

+ A(8U1)

= 4T + 2 Area(T)

Area(T)

over counting

4(x+p+8)= 411+4 Area (T)

Areal7) = X+B+Y-TL.

82. Sælvergræghir Projection.

"Rotates glowe try in \mathbb{R}^2 to geometry in \mathbb{R}^2 N=(0,0,1)