

#flo #inclass

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## 1 | ayo?

on non-ucldian geomomatrey, you can have a circle whose radius is longer than the circumfrance /  $2\pi$  if the radius is longer, we call this "positive curvature" if it's less, we call it "negative curvature"

we have to imagine projecting a 3d sphere into four dimensions so our surface area is not  $4\pi r^2$