

$$e^{\pi i} + 1 = 0$$

# Euler's Identity

**and why i think it's neat... and you can too**

# why are you doing this

- i think euler's identity is a really beautiful equation and want to try to get at why
- a lot of math taught in schools doesn't even touch the *aesthetics* of it
- but: many (maybe even most) mathematicians study math because they find it beautiful, not because it's useful
- please try to set aside any math anxiety you have. there will NOT be a quiz! you do not need to understand everything. *i* do not understand everything about euler's identity... far from it! part of the appeal of euler's identity is not really "getting" it and i think that itself is beautiful
- my goal is to give just enough information to show why euler's identity is neat