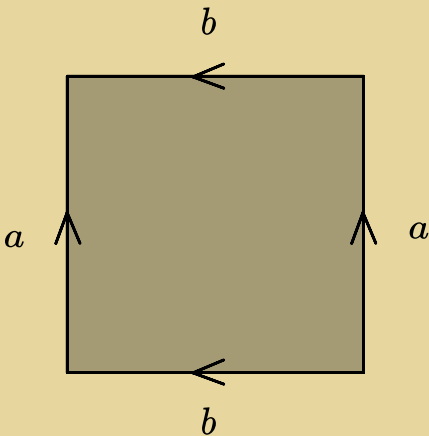


This note, that [was found here](#), as a part of [a collection](#) is written (completely with human hands) by [Rupadarshi Ray](#), was created on January 17, 2024 3:56:38 PM, was last modified on September 7, 2026 2:42:12 PM, and was exported on September 7, 2026 3:04:04 PM.

Torus identified with a glued rectangle

 $[0, 1]^2$ with the glued sides like



is diffeomorphic to T^2

$$\begin{aligned} [0, 1]^2 &\rightarrow S^1 \times S^1 \\ (x, y) &\mapsto ((\cos x, \sin x), (\cos y, \sin y)) \end{aligned}$$

or in complex notation

$$(x, y) \mapsto (e^{ix}, e^{iy})$$

[Deformation retract of a punched torus to wedge sum of two circles](#)

Current note has 0 direct children and 0 total descendants.

- [stretchy](#)
 - T^2
 - [Torus identified with a glued rectangle](#)

And it has 2 siblings.

- [stretchy](#)
 - T^2
 - [Torus identified with a glued rectangle](#)
 - [Translation flows on the 2-torus](#)