

Spring 2021, Math 621: Preliminary Problem Set 5
Due: Thursday, February 25th, 2021
The Fundamental Group

Preliminary problems. These should be submitted to Gradescope before Thursday discussion.

(P1) Find a non-contractible closed path $\gamma : [0, 1] \rightarrow \mathbb{R}\mathbb{P}^2$ whose concatenation γ^2 is contractible.