

Extra Credit Assignment 3

Due Friday, February 5, 11:59 PM

Exhibit a surjection from S^2 to P^2 .

Recall that a function $f : X \rightarrow Y$ between two topological spaces is called continuous if any open subset of Y has open preimage.

Explore ways to give P^2 a topology so that your surjection is continuous. How many ways can you think of doing this? Is there a “best” way?