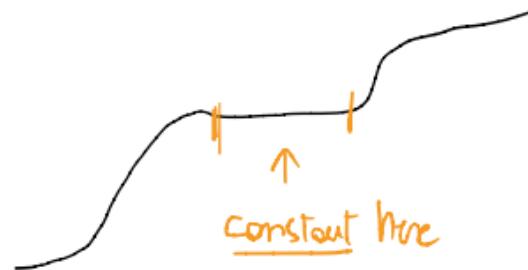
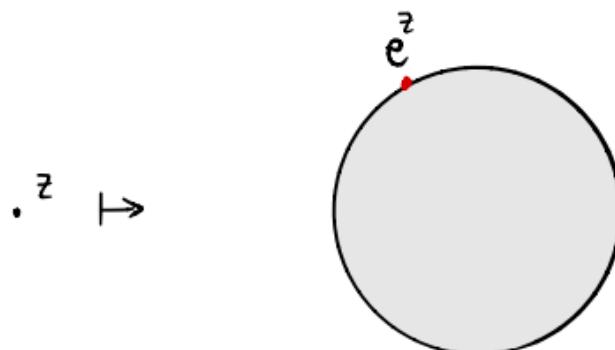


①



This is a counterexample for  $F$  not locally invertible.

②



This is a counterexample for  $F$  not proper.