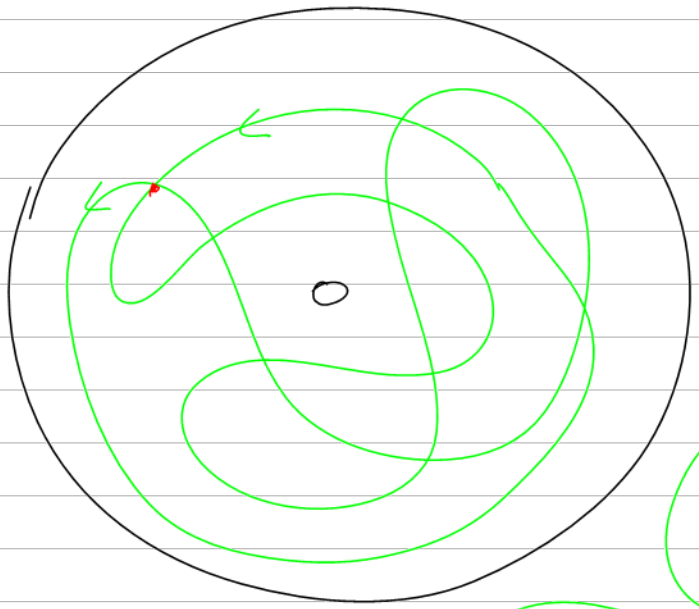
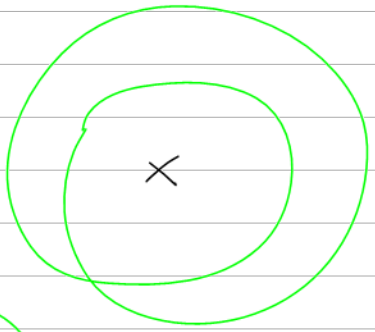
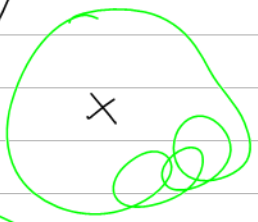
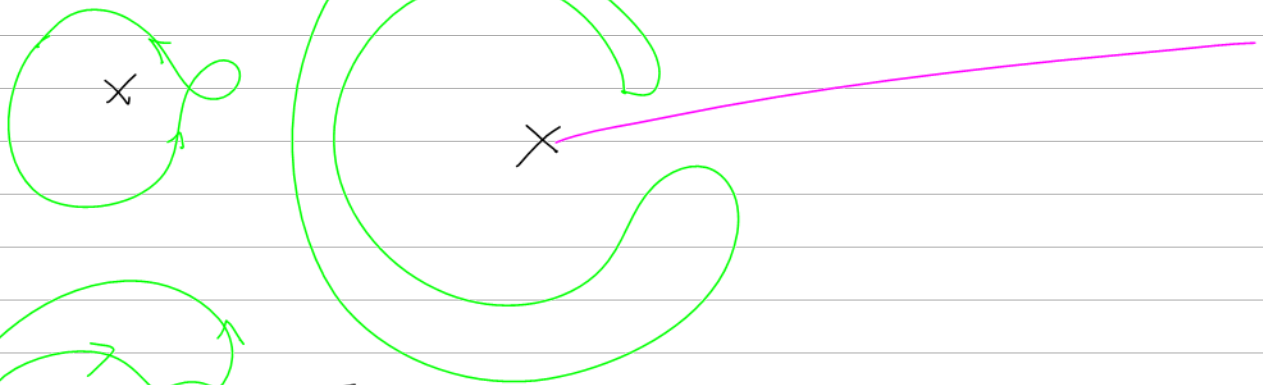
$\gamma \subset \mathbb{R}^2 \times I \sim \mathbb{R}^3$

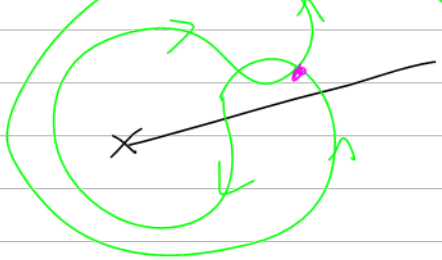
$\subset \Sigma_g \times I$



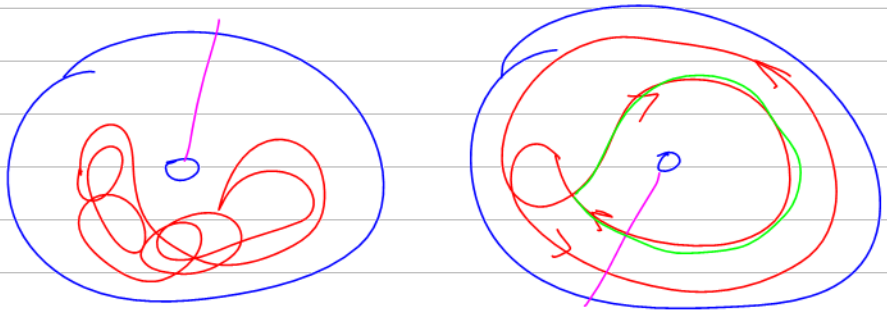


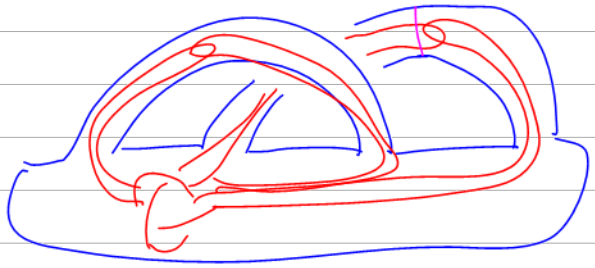


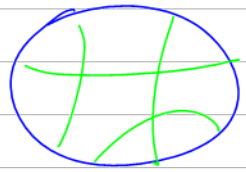
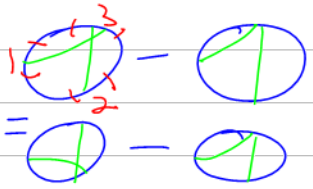


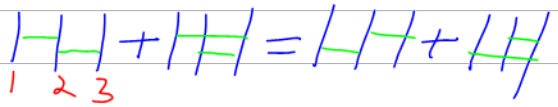


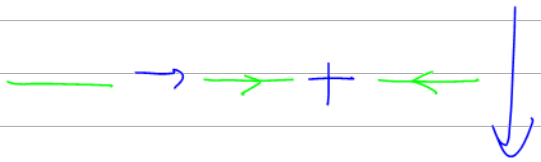
Q In the annulus, is it true that every contractible curve that is not manifestly contractible, has an odd intersection?

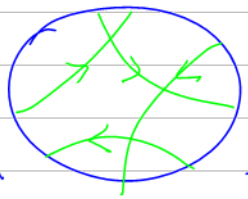
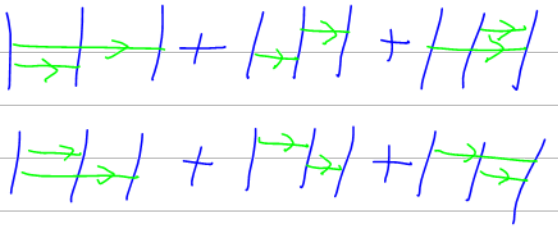




$A = \langle$  $\rangle / 4T =$ 





$A^V = \langle$  $\rangle / 6T =$ 

XII

[BHLR]