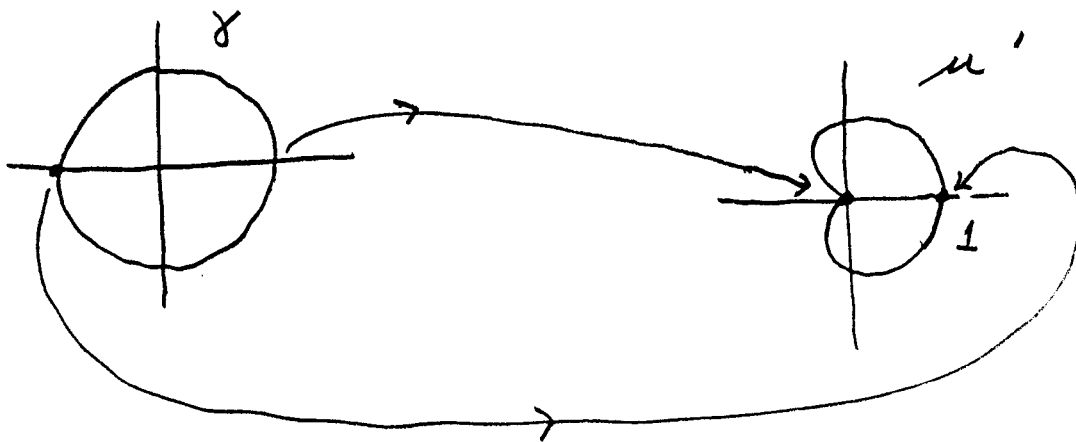


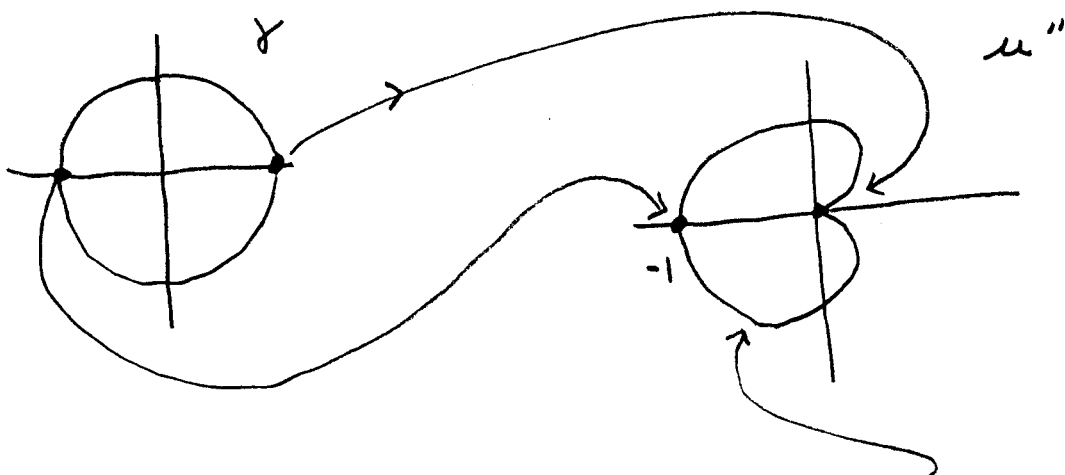
$$\text{Let } \mu' = \mu + 1/4 \Rightarrow \mu' = (\gamma - 1)^2/4$$

$$\Rightarrow \mu' = 0 \text{ when } \gamma = 1, \mu' = 1 \text{ when } \gamma = -1$$

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$$\text{Let } \mu'' = -\mu' \Rightarrow \mu'' = -(\gamma - 1)^2/4$$



Need to prove that this curve is a cardioid. Drop the " and consider the locus of points

$$\mu = -(\gamma - 1)^2/4 \text{ when } \gamma = e^{i\phi}$$