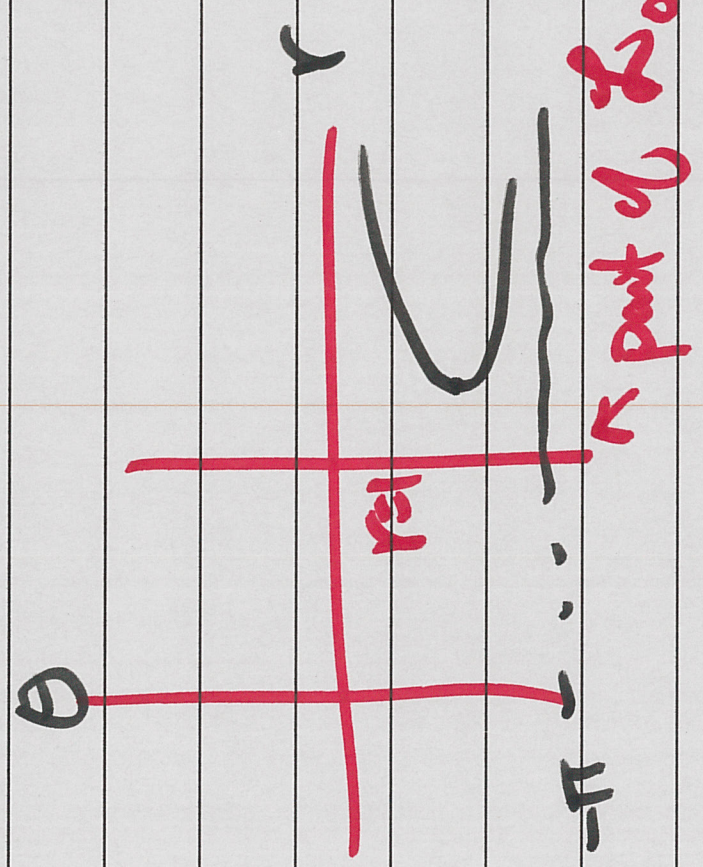


$$\mathcal{L}_0 = \{(r, \theta) : -\alpha \ln r - \sin \theta = 0\}$$

$r > 1$?



$$\sin \theta = \frac{\alpha \ln r}{r - 1} = 0$$

$f(r), r > 0$

