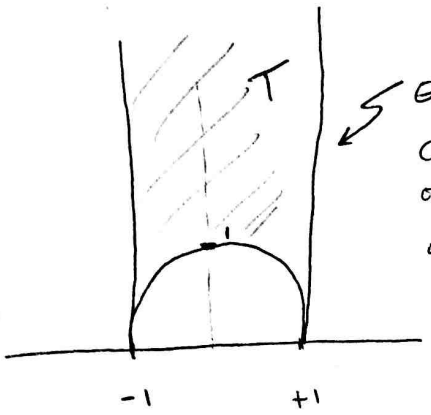
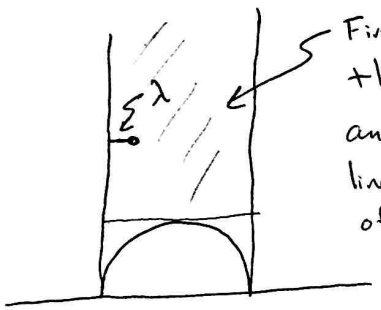
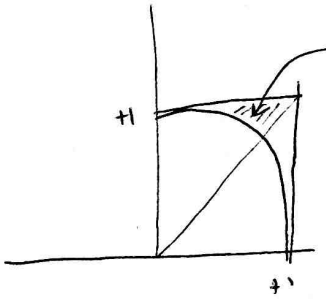


Every ideal triangle can be sent to this one by an isometry of $\mathbb{H}^2$

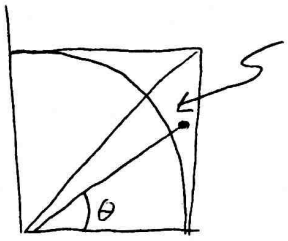


First consider pts in this region and show that horizontal lines joining them to T of bounded length



points (x,y) in this region can be joined to the half circle by vertical lines of length

$$\ln\left|\frac{y}{\sqrt{1-x^2}}\right|$$



points in this region can be joined to the half circle by line segments perp to the half circle and [illegible] of bounded length.