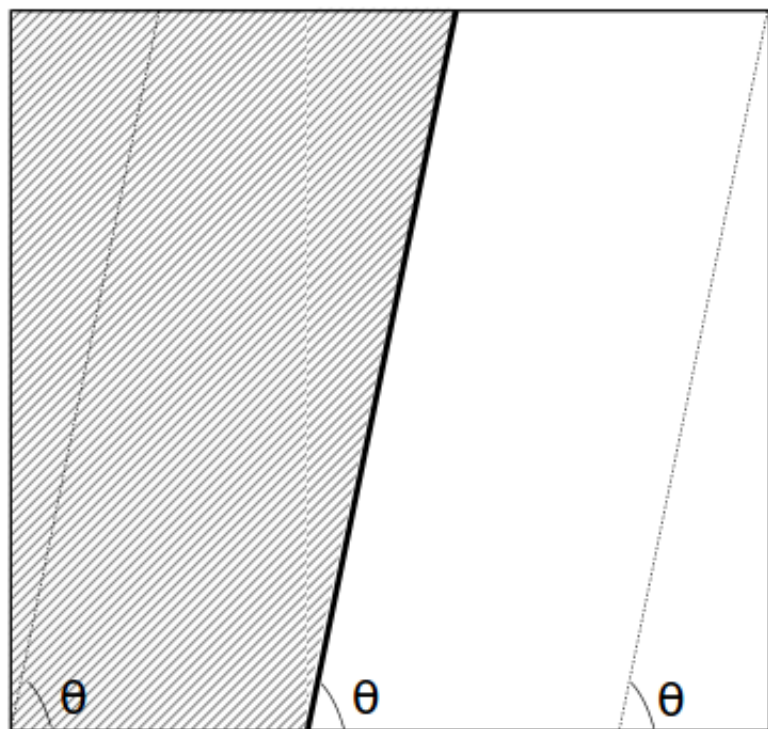


(a)  $\theta < \pi/4$



(b)  $\theta > \pi/4$