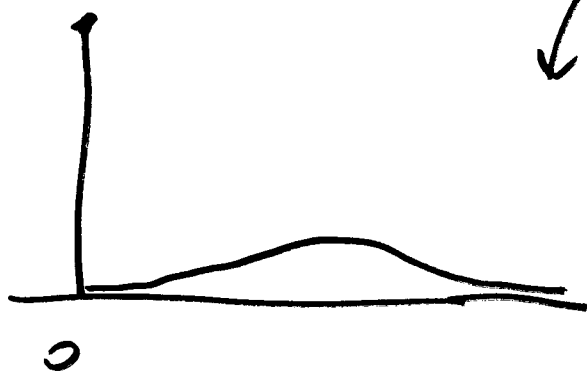


x mixture of PMF:
point mass at 0

$\&$ $\log(x)$ for $x > 0$



\nwarrow $I(\text{mode} = 0)$