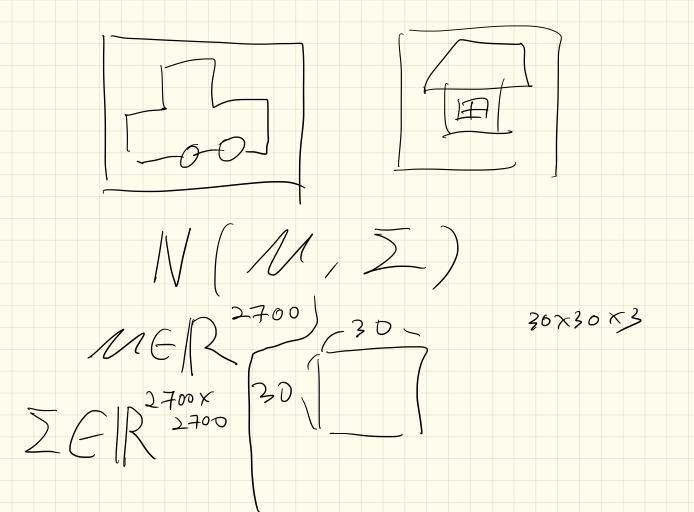
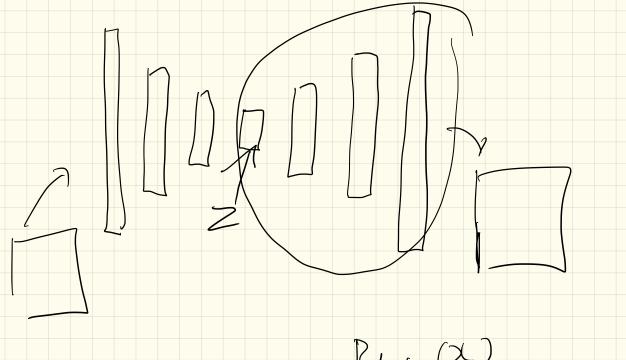


model? Generative Pdata (>1) Parta (7) =) learn => Sample from the dist Panea Col



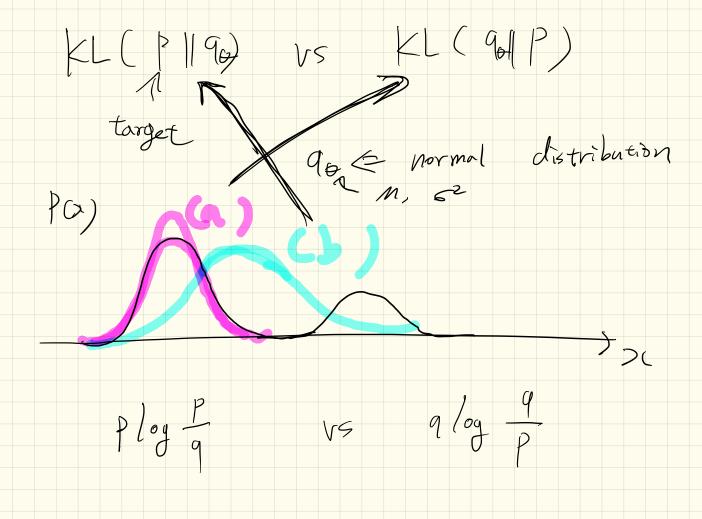


$$\begin{array}{c}
\left(P_{data}(z), \int P_{\theta}(x|z)\right) \\
P(z) dz
\end{array}$$

KL - divergence. (Kullback - Leibler) KL(P119)=> PCX)/og Pa) XEX PCX)/og Pa) (KLCP119) $= \int P(x) \log \frac{P(x)}{q(x)} dx$ $= \frac{1}{2\pi p_{0}} \left[\frac{p_{0}}{q_{0}} \right]$ o KL(P119) > 0 KL(P119) = 0 P(2) = 9(2) +x 7,44

KL(P#9) Entropy of p in classification examples tosks

= (- entropy of P data) of Plan and + Cross entropy log likelihood, =) maximizing



$$0/30 = 0$$
 $(in 1/6)2 = 0$
 $(in 1/6)2 = 0$