to present Th., Sept. 28!
Homework F: Samples for X: 0, 3, 4, 5 and $X \sim N(\mu, \sigma)$. Compute the likelihood of the 4 samples and $L((\mu, \sigma) \mid X)$ using: a. $N(3,1.5), \quad$ b. $N(1,1)$ and the formula $L((\mu, \sigma) \mid X)=p_{\mu, \sigma}(0) * p_{\mu, \sigma}(3) * p_{\mu, \sigma}(4) * p_{\mu, \sigma}(5)$
c. What values does the maximum likelihood estimator (MLE) choose for ( $\mu, \sigma$ )? Compute $L(\ldots)$ for its choice! d. How, in general, does the MLE work?

