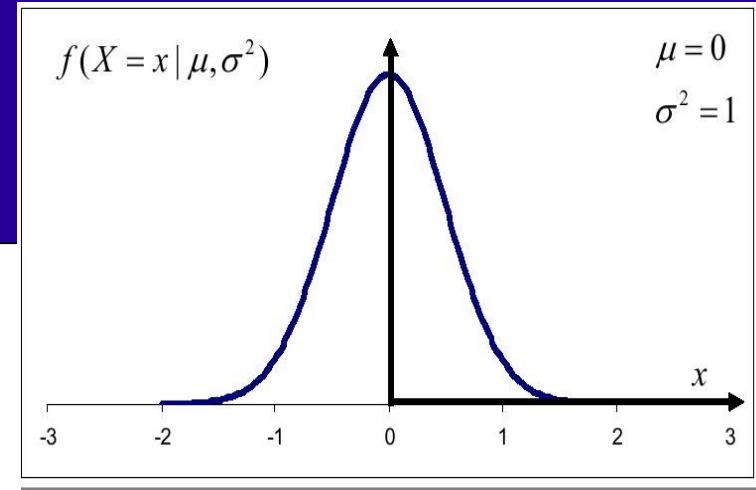


# GMM example

- 1-dim, 1-mixture, GMM model:  
**mean = 100 , variance = 1**
- Observed feature  **$x = 102$** , or  **$x = 99$** , then  **$f(x \mid 100, 1) =$**
- **$f(102) =$**
- **$f(99) =$**



**Now:** Go to **MyCourses > Lectures > Lecture1 exercise** and open the return box  
To get an activity point return your solution today. All attempts will be rewarded.

$$f(X=x \mid \mu, \sigma^2) = \frac{1}{\sqrt{2\pi}\sigma} \exp\left[-\frac{(x-\mu)^2}{2\sigma^2}\right]$$

Exp (-2) = 0.14  
Exp (-1) = 0.37  
Exp (-0.5) = 0.61  
1/sqrt(2\*pi) = 0.40