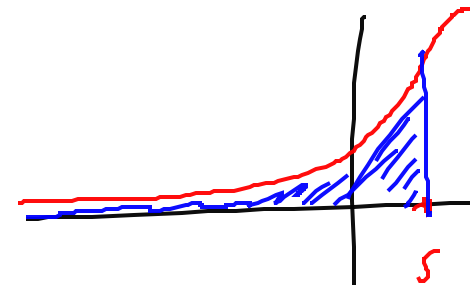


ex  $X \sim \mathcal{N}\left(\underbrace{6}_{\mu}; \underbrace{9}_{\sigma^2}\right)$



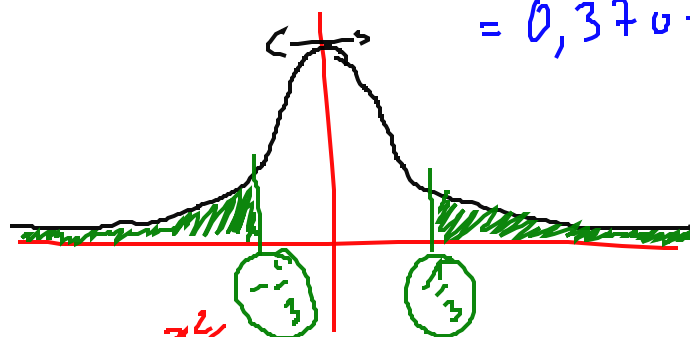
$Y = \frac{X-6}{3} \sim \mathcal{N}(0,1)$  tableau p 53

$P(X \leq 5) = P\left(\frac{X-6}{3} \leq \frac{5-6}{3}\right) = P\left(Y \leq -\frac{1}{3}\right)$

$= F_Y\left(-\frac{1}{3}\right)$   
 $= 1 - F_Y\left(\frac{1}{3}\right) = 1 - 0,6293$   
 $= 0,3707$

$\forall x \in \mathbb{R} \quad F(-x) = 1 - F(x)$

$Y \sim \mathcal{N}(0,1)$



$f_Y(x) \rightarrow \frac{1}{\sqrt{2\pi}} e^{-\frac{x^2}{2}}$  fonction paire

