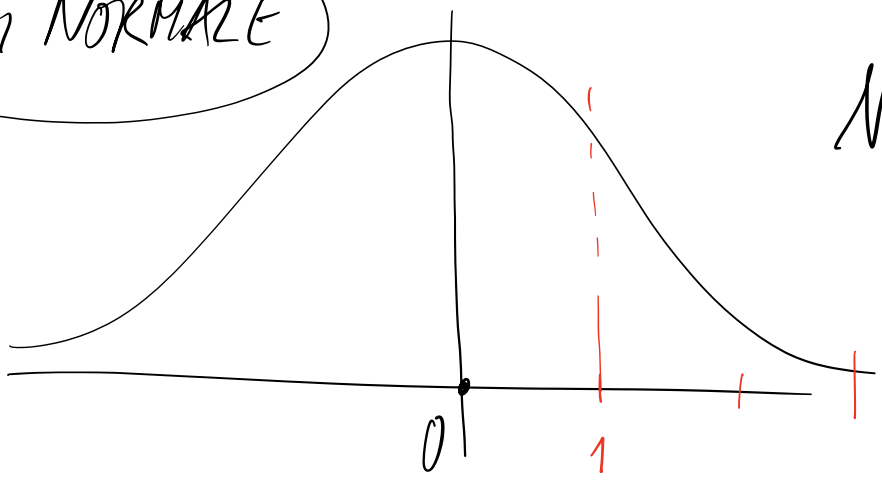
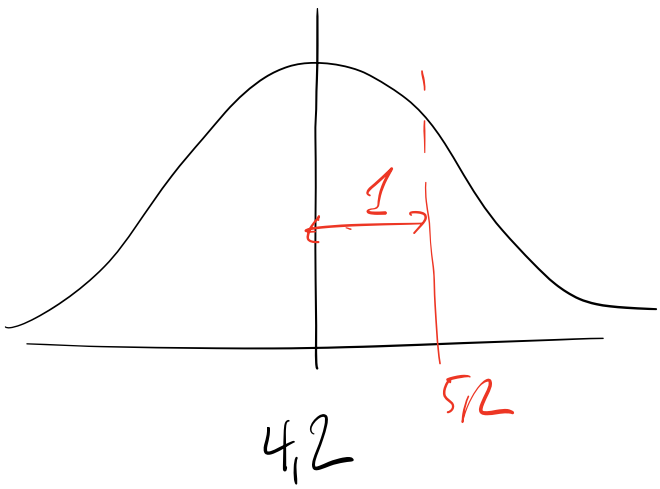
LOI NORMALE



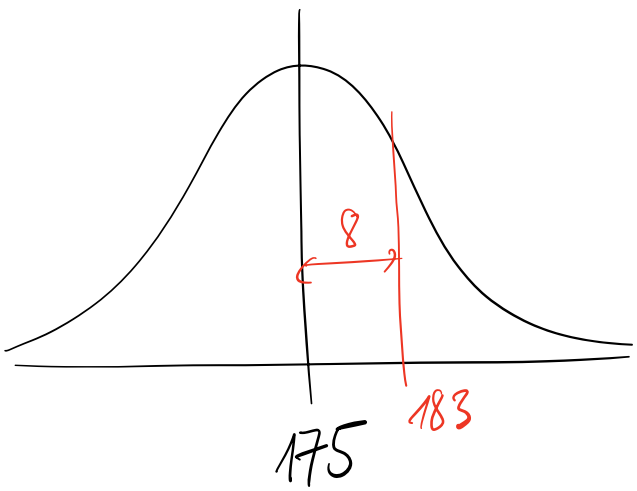
$N(0;1)$ ← écart-type : 1

moyenne : 0

TABLE DE VALEURS



$N(4{,}2;\ 1^2)$

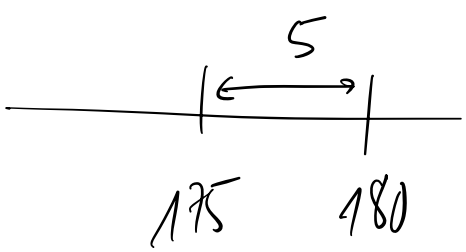


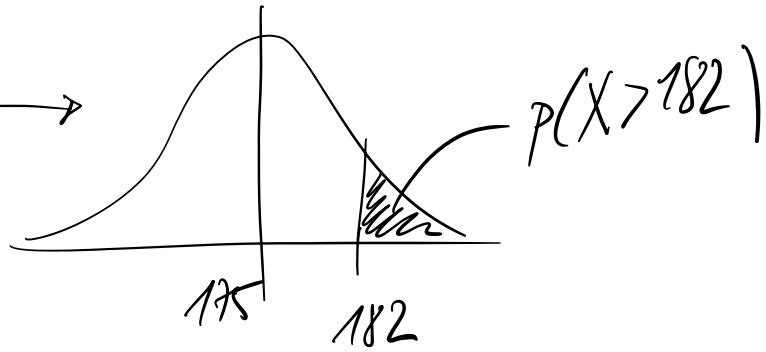
⚠ $\sqrt{\ }$

$N(175;\ 64) = N(175;\ 8^2)$

variance

⇒ écart-type : $\sqrt{64}$

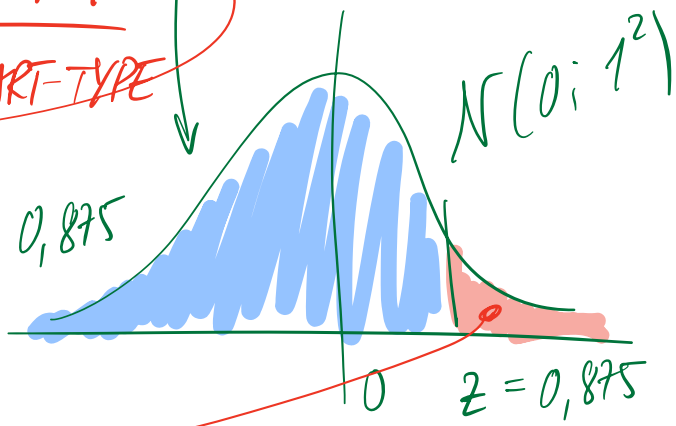


$N(175; 8^2)$ 

$p(X > 182)$

« Conversion » $\text{COTE } z = \dfrac{\text{VALEUR} - \text{MOY}}{\text{ÉCART-TYPE}}$

$$z = \frac{182 - 175}{8} = \frac{7}{8} = 0{,}875$$



$p(z > 0{,}875) = 1 - p(z < 0{,}875)$

↑ A trouver à l'aide de la table $N(0;1^2)$

$= 1 - p(z < 0{,}88)$

$= 1 - 0{,}8106 \simeq 0{,}19$