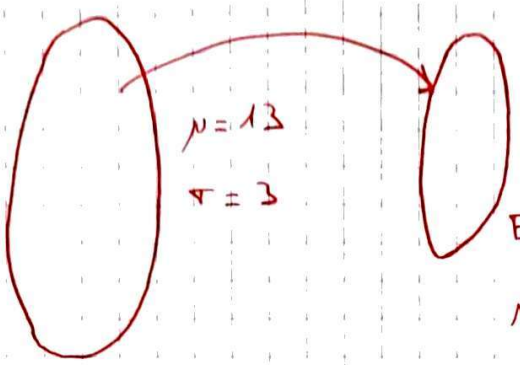
Exemple 1 :



$m = \mu = 13$

$s = \frac{\sigma}{\sqrt{n}} = \frac{13}{\sqrt{20}} \simeq 2,91$

$\bar{X}$: moyenne d'un échantillon d'étudiant-es. $(N(13; 2,91))$

$$P(\bar{X} > 11) = P\left(\frac{\bar{X} - m}{s} > \frac{11-13}{2,91}\right) \quad \left(Y = \frac{\bar{X} - m}{s}\right)$$

$$= P\left(Y > \frac{-2}{2,91}\right)$$

$$= P(Y > -0,687)$$

$$= P(Y < 0,687)$$

$$= \Pi(0,687)$$

$$= 0,753$$