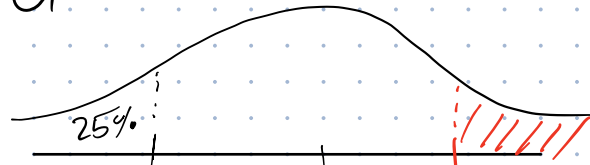


9.6.

$$X \sim N_0 = (\mu = 75, \sigma^2 = 100)$$

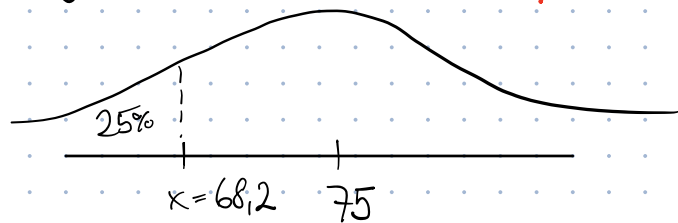
$$U = \frac{X - \mu_X}{\sigma} = \frac{X - 75}{10}$$

U:



$$P(X \leq x) = P\left(U \leq \frac{x - 75}{10}\right)$$

N:



$$P(X \leq x) = 0.25$$

$$1 - 0.25 = 0.75 \rightarrow \underline{0.68}$$

$$-0.68 = \frac{x - 75}{10} \quad | \cdot 10$$

$$-0.68 \cdot 10 = x - 75$$

$$-6.8 + 75 = x \Rightarrow \underline{\underline{x = 68.2}}$$