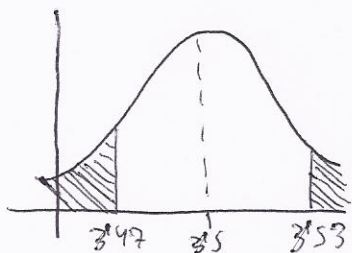


Exercici 26-

Distribució normal $N(3'5 \text{ cm}; 0'02 \text{ cm})$

Diametre $> 3'47$; $< 3'53$.

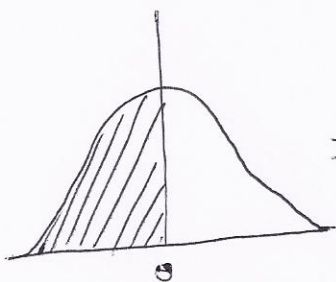
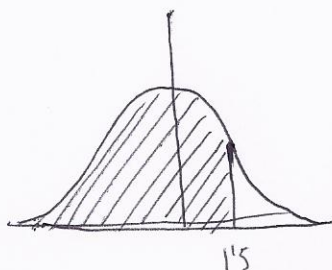
Peces que s'hauran de rebutjar?



Donat $X \sim N(3'5, 0'02) \rightarrow P(3'47 \leq X \leq 3'53)$

Signi $Y = \frac{X - 3'5}{0'02} \rightarrow P\left(\frac{3'47 - 3'5}{0'02} \leq Y \leq \frac{3'53 - 3'5}{0'02}\right)?$

$$P(-1'5 \leq Y \leq 1'5)$$



Tret de la taula
 \nearrow
 $= 0'9332 - 0'5 = 0'4332$

$$P(-1'5 \leq Y \leq 1'5) = 2 \cdot P(0 \leq Y \leq 1'5) = 2 \cdot 0'4332 = 0'8664$$

Proporció peces útils

$$1 - 0'8664 = \boxed{0'1336}$$