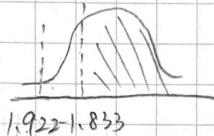


企管=甲 A109270047 林羽翔

1. $H_0: m \geq 198$, $H_1: m < 198$, $\alpha = 0.05$

$$\frac{190 - 198}{\frac{13.16}{\sqrt{10}}} = -1.922$$

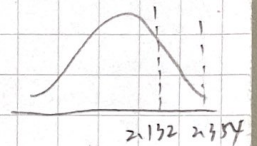


$t_{0.05}(9) = 1.833$ 拒絕 $H_0 \Rightarrow$ 合格

5. $H_0: m \leq 1.5$, $H_1: m > 1.5$

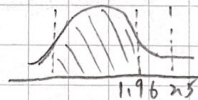
$Z_{0.05}(4) = 2.132$

$$\frac{1.52 - 1.5}{\frac{0.1019}{\sqrt{5}}} = 2.354$$



2. $H_0: m = 420$, $H_1: m \neq 420$, $\alpha = 0.05$, $\frac{\alpha}{2} = 0.025$

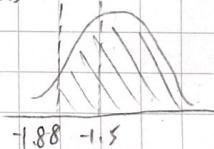
$Z_{0.025} = 1.96$, $\frac{423 - 420}{\frac{12}{\sqrt{100}}} = 2.5$



拒絕 $H_0 \Rightarrow$ 規格改變

3. $H_0: m \geq 70$, $H_1: m < 70$ $Z_{0.03} = -1.88$

$\frac{68.5 - 70}{\frac{6}{\sqrt{36}}} = -1.5$, 不拒絕 $H_0 \Rightarrow$ 成績沒有不如去年



4. $P(Z < -1.5) = 0.0668 > 0.03 \Rightarrow$ 不拒絕 H_0

