

Date: / /

1.  $H_0: m \geq 198$

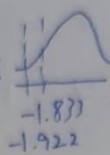
$H_1: m < 198$

$\alpha = 0.05$

$t_{0.05}(9) = -1.833$

拒絕  $H_0 \Rightarrow$  合格

$\frac{190.198 - 198}{\frac{12.16}{\sqrt{10}}} = -1.922$



2.  $H_0: m = 420$

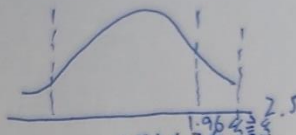
$H_1: m \neq 420$

$\alpha = 0.05, \frac{\alpha}{2} = 0.025$

$Z_{0.025} = 1.96$

拒絕  $H_0 \Rightarrow$  未合格 已交 交

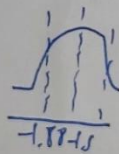
$\frac{423 - 420}{\frac{12}{\sqrt{100}}} = 2.5$



3.  $H_0: m \geq 70$

$H_1: m < 70$

$Z_{0.05} = -1.88$

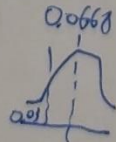


$$\frac{68.5 - 70}{\frac{6}{\sqrt{36}}} = -1.5$$

不拒絕  $H_0 \Rightarrow$  成績沒有不如去年

4.  $P(Z < 1.5)$

$= 0.0668 > 0.05$

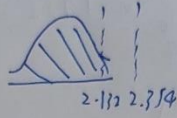
 $\Rightarrow$  不拒絕  $H_0$ 

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$$5. H_0 = \mu \leq 1.5$$

$$H_0 = \mu > 1.5$$

$$L_{0.05}(4) = 2.132$$



$$\frac{1.52 - 1.5}{\frac{0.019}{\sqrt{5}}} = 2.354$$

拒絕  $H_0 \Rightarrow$  超標不合格