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1. $H_0: \mu \geq 198$

① $H_1: \mu < 198$

② $\alpha = 0.05$

③ $t_{0.05}(9) = -1.833, T < -1.833$

④ $\frac{196 - 198}{\frac{13.16}{\sqrt{10}}} = -1.922$

拒絕 H_0 #

2. $H_0: \mu = 420$

① $H_1: \mu \neq 420$

② $\alpha = 0.05$

③ $z_{0.025} = 1.96, |Z| > 1.96$

④ $\frac{423 - 420}{\frac{12}{\sqrt{100}}} = 25$

拒絕 H_0 #

3. ① $H_0: \mu \geq 70$

$H_1: \mu < 70$

② $\alpha = 0.03$

③ $z_{0.03} = -1.88, Z < -1.88$

④ $\frac{68.5 - 70}{\frac{6}{\sqrt{36}}} = -1.5$

不拒絕 H_0 #

$$4. P(Z < -1.5)$$

$$\Rightarrow 0.0665 > 0.03$$

\Rightarrow 不拒绝 H_0 #

$$5. \textcircled{1} H_0 = \mu \leq 1.5$$

$$H_1 = \mu > 1.5$$

$$\textcircled{2} \alpha = 0.05$$

$$\textcircled{3} t_{0.05}(4) = 2.132, T > 2.132$$

$$\textcircled{4} \frac{52 - 1.5}{\frac{0.019}{\sqrt{5}}} = 2.354$$

拒绝 H_0 #