

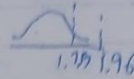
$$6. \bar{x} = 4.65, s = 1.26$$

$$(1) n = 40, \alpha = 0.05$$

$$H_0: \mu = 4.3, H_1: \mu \neq 4.3$$

$$Z_{0.025} = 1.96$$

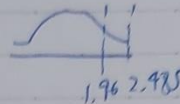
$$\frac{4.65 - 4.3}{\frac{1.26}{\sqrt{40}}} = 1.757$$



$$(2) n = 30, \alpha = 0.05, Z_{0.025} = 1.96$$

$$\frac{4.65 - 4.3}{\frac{1.26}{\sqrt{30}}} = 2.485$$

拒绝  $H_0$

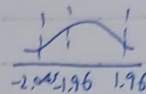


$$7. H_0: \mu_1 = \mu_2, H_1: \mu_1 \neq \mu_2$$

$$Z_{0.025} = 1.96$$

$$\frac{(\bar{x} - \bar{y}) - 0}{\sqrt{\frac{s_1^2}{n_1} + \frac{s_2^2}{n_2}}} = \frac{38.3 - 40.1}{\sqrt{\frac{40}{100} + \frac{70}{80}}} = -2.045$$

拒绝  $H_0$



$$8. H_0: \mu_1 = \mu_2, H_1: \mu_1 \neq \mu_2$$

$$(\bar{x} - \bar{y}) = 0$$

$$\hat{s}_p = \sqrt{\frac{(n_1 - 1)s_1^2 + (n_2 - 1)s_2^2}{n_1 + n_2 - 2}}$$

$$= \frac{32 - 34}{1.430 \sqrt{\frac{1}{69} + \frac{1}{81}}} = -1.436$$

$$\hat{s}_p = \sqrt{\frac{(n_1 - 1)s_1^2 + (n_2 - 1)s_2^2}{n_1 + n_2 - 2}} = \sqrt{\frac{63 \times 2.5^2 + 78 \times 2.5^2}{143}} = 2.430$$

$$9. t_{0.025}(18) = 2.101$$

$$H_0: \mu_1 = \mu_2, H_1: \mu_1 \neq \mu_2$$

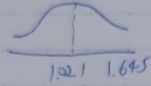
$$\frac{(\bar{x} - \bar{y}) - 0}{\hat{s}_p \sqrt{\frac{1}{n_1} + \frac{1}{n_2}}} = \frac{82.6 - 84.9}{5.693 \sqrt{\frac{1}{10} + \frac{1}{10}}} = 0.903$$

$$\hat{s}_p = \sqrt{\frac{7 \times 95.261 + 9 \times 6.675}{18}} = 5.693$$

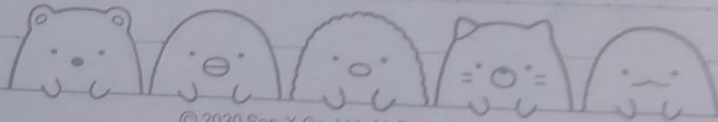


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10.  $\Sigma_{0.05} = 1.645$ ,  $z = \frac{\hat{p} - p_0}{\sqrt{\frac{p_0(1-p_0)}{n}}} = \frac{0.08 - 0.04}{\sqrt{\frac{0.04(1-0.04)}{100}}} = 1.021$ ,  $H_0: P \geq 0.04$ ,  $H_1: P < 0.04$



$\hat{p} < p_0$



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