

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

$$H_0: \mu_1 = \mu_2$$

$$H_1: \mu_1 \neq \mu_2$$

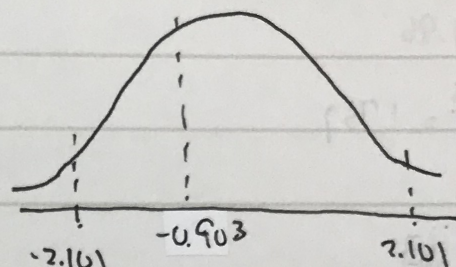
$$\frac{(\bar{x} - \bar{y}) - 0}{S_p \sqrt{\frac{1}{n_1} + \frac{1}{n_2}}}$$

$$S_p = \sqrt{\frac{9 \times (4.526)^2 + 9 \times (6.6575)^2}{18}}$$

$$= 5.693$$

$$= \frac{82.6 - 84.9}{5.693 \sqrt{\frac{1}{10} + \frac{1}{10}}}$$

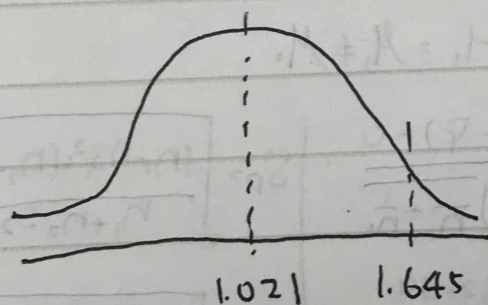
$$= -0.903$$



\Rightarrow 不拒絕 H_0

$$10. Z_{0.05} = 1.645 \quad H_0: P \geq 0.4 \quad H_1: P < 0.4$$

$$Z = \frac{\hat{p} - P_0}{\sqrt{\frac{P_0(1-P_0)}{n}}} = \frac{0.45 - 0.4}{\sqrt{\frac{0.4 \times 0.6}{100}}} = 1.021$$



\Rightarrow 不拒絕 H_0