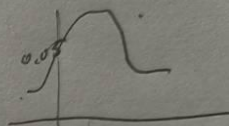
7.6.

$H_0: \mu_1 - \mu_2 \geq 0$.

$H_1: \mu_1 - \mu_2 < 0$ $\quad \alpha = 0.05$.

$$C = \{Z < -z_\alpha\} = \{Z < -1.645\}.$$



$$Z = \frac{\bar{X} - \bar{Y}}{\sqrt{\frac{S_1^2}{n_1} + \frac{S_2^2}{n_2}}} = \frac{6.98 - 7.2}{\sqrt{\frac{0.28^2}{200} + \frac{0.33^2}{180}}} = -2.80 \in C$$

棄帰無假設. 男生步行女生.