

$$c) \bar{G}^1(\mu_1) = \bar{F}_{n-1, n-1}^{-1}(0.05) = \bar{F}_{6,6}^{-1}(0.05) = 0.2334$$

$$\bar{G}^1(\mu_2) = \bar{F}_{n-1, n-1}^{-1}(0.95) = \bar{F}_{6,6}^{-1}(0.95) = ~~9.0227~~ 4.2838$$

d) the coef of ~~the~~ conf interval is

$$(A, B) = \left(\bar{F}_{n-1, n-1}^{-1}(0.05) \frac{\sum (Y_i - \bar{Y}_n)^2}{\sum (X_i - \bar{X}_n)^2}, \bar{F}_{n-1, n-1}^{-1}(0.95) \frac{\sum (Y_i - \bar{Y}_n)^2}{\sum (X_i - \bar{X}_n)^2} \right)$$

$$= \left(\bar{F}_{6,6}^{-1}(0.05) \frac{\sum (Y_i - \bar{Y}_n)^2}{\sum (X_i - \bar{X}_n)^2}, \bar{F}_{6,6}^{-1}(0.95) \frac{\sum (Y_i - \bar{Y}_n)^2}{\sum (X_i - \bar{X}_n)^2} \right)$$

$$e) (a, b) = \left(0.2334 \cdot \frac{11.5}{5.46}, ~~9.0227~~ \cdot \frac{11.5}{5.46} \right)$$

$$= (0.4916, 9.0227)$$

the conclusion is the same