MA 6 7 7 Homework X Chaogun (in

1. 
$$x: 0.225, 0.262, 0.217, 0.240, 0.230, 0.229, 0.235, 0.217.$$

Y: 0.209, 0.205, 0.196, 0.210, 0.202, 0.207, 0.224, 0.223, 0.220, 0.201.

D  $x=0.232, y=0.220, 0.201.$ 
 $5x^2 = \frac{\sum x_1^2}{n} - \frac{1}{x^2} = 0.00013.$ 

Sy =  $\frac{\sum x_1^2}{n} - \frac{1}{x^2} = 0.00034 \times 0.05.$ 

P(t = 4.53) = 0.00034 \times 0.05.

They are writen by different authors.

2.  $x_1 - x_1 \sim x(x_1, 6^2)$ 
 $x = \frac{\sum x_1^2}{n} = 156.7 \rightarrow 6x = \sqrt{\sum (x_1 - x_2)^2} = 22.6.$ 

Sd =  $\frac{6x}{\sqrt{n}} = 5.06.$ 

Confidence Interval: [148.1,165.6]

3.  $\times_1 - \times_n \sim \mathcal{N}(M, 6^2)$  Ho:  $M_1 = 1/M_2$ ,  $Y_1 - Y_n \sim \mathcal{N}(M, 6^2)$  Ho:  $M_1 = 1/M_2$ .  $M = (m+n-2)^{\frac{1}{2}} \cdot (x_1 - x_2)$ (m+ i) = (5x1 +5x2) 2 ~ ~ -1-69 df = m + n - 2 = 12,  $\alpha = 0$ . N~t1210-97=1.365. in Mis less than Wz.