$$n=30$$
, $\pi=980$, $r=4$.

공학통계 과제

$$N = \left[\frac{2.05\times40}{10} \right]^{\frac{2}{2}} \frac{68}{68}$$

$$N=20$$
, $\overline{x}=11.3$, $S=2.45$
 $V=19+t_{0.025}=2.093$

9-12

$$h=10, \ \overline{x}=230, \ S=15,$$

 $V=9 \rightarrow t_{0028} = 3.25$

: 214,58< M<245.42

$$11.3 \pm (2.093)(2.45)\sqrt{1+1/20} = 11.3 \pm 5.25$$

 $-1.(6.05, 16.55)$

#9-22

$$=$$
 $7(-15) = (18.3) - (2.269)(5.6) = 65.59$

#9-35

$$N_1 = 25$$
 $\Sigma_1 = 80$ $\sigma_1 = 5$ $\Sigma_{0.03} = 1.88$

68.91 & 65.59

#9-39
$$n_{1}=|2 \quad \overline{X}_{1}=84 \quad S_{1}=4 \quad S_{p}=\frac{(n_{1}-1)S_{1}^{2}+(n_{2}-1)S_{2}^{2}}{n_{1}+n_{2}-2}$$

$$n_{2}=|8 \quad \overline{A}_{2}=n\eta \quad S_{2}=6)$$

$$=5.305$$

$$V=28+t = 2.063$$

$$(84-n\eta) \pm (2.n63)(5.305) \quad \boxed{V_{12}+V_{18}}$$

$$=9 \pm 5.46.$$

$$(.54 < M_{1}-M_{2} < (.2.46)$$

$$n_{B}=|2 \quad \overline{X}_{A}=36300 \quad S_{A}=5000$$

$$n_{B}=|2 \quad \overline{X}_{B}=38/00 \quad S_{B}=6/00$$

$$(\frac{S_{0}v_{0}^{2}}{12}+\frac{6/00^{2}}{12})^{2}$$

$$V=\frac{(\frac{S_{0}v_{0}^{2}}{12})^{2}}{11}+\frac{(\frac{6/00^{2}}{12})^{2}}{11}$$

$$V=2/-3 \quad t_{0.02r}=2.08$$

$$(36300 - 38100) \pm (2.08).$$
 $\sqrt{\frac{5606^2}{12}} + \frac{6106^2}{12}$
= -1800 ± 4736
 $-6536 < MA - MB < 2936$

9-44

$$n=8$$
, $J=-1112.5$ $S_J=1454$.

 $V=9 \rightarrow t_{0.005}=3.499$
 $-1112.5 \pm (3.499) \times \frac{(454)}{(8)} = -1112.5 \pm (198.9)$
 $-2911.2 < M_P < 686.2$

#9-54

 $n=500. \rightarrow \hat{p} = \frac{485}{500} = 0.99$, $\hat{q} = 0.03$
 $20.05 = 1.645$
 $0.99 \pm (1.645) \sqrt{\frac{0.99 \times 0.03}{500}}$
 $= 0.99 \pm 0.013$
 $0.959 < P < 0.983$

$$= 0.025 \pm 0.039$$
 $-0.014 < p_2 - p_1 < 0.064$

$$S^{2} = 0.815 \quad (V=4) \quad \chi \quad \frac{2}{0.025} = 11.143 \quad , \quad \chi \quad \frac{1}{0.905} = 0.484$$

$$\frac{4 \times (0.815)}{11.143} \quad \langle \quad 0^{2} \quad \langle \quad \frac{4 \times 0.815}{0.484}$$

$$0.293 \quad \langle \quad \sigma^{2} \quad \langle \quad 6.736 \rangle$$