## Assignment - 3

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## 10.7

High ways		2	3	9	Total
Num. of road accidents	50	42	32	82	206

$$\chi^{2} = \sum \frac{Q_{1}^{2}}{F_{1}} - n \qquad \text{fi} = \frac{n}{k}$$

$$= \frac{1}{51.5} \times \left[ 50^{2} + 92^{2} + 32^{2} + 82^{2} \right]^{2} = \frac{206}{9}$$

$$= 27.29$$

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$$= \chi^{2} > \chi^{2}_{31}$$
The is not accepted

$$\chi^2 = \underbrace{\frac{g_i^2}{f_i}}_{=250} - n \qquad \Big| \qquad \underbrace{F_i = \frac{n}{k}}_{=250}$$

$$\frac{(250^{2}+450^{2}+150^{2}+100^{2})}{250}-1000$$

AT WE THE BEST the is not accepted.

$$\bar{\chi} = \frac{2x}{761.6}$$

$$= \frac{761.6}{36}$$

$$S^{L} = \frac{1}{n-1} \left[ \frac{2n^{L} - (\frac{2n^{L}}{n})}{n} \right]$$

$$= \frac{1}{35} \left[ 16125.5 - \frac{(761.6)}{36} \right]$$

$$\frac{2}{2} = \frac{21.15 - 21}{0.62}$$

$$= 1.95$$

the is accepted

$$\rho = \frac{8}{25}$$

$$\frac{2}{\sqrt{\frac{P_0 Q_2}{N}}}$$

$$\frac{10.11}{10.11}$$

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$$\frac{10.12}{10.12}$$

$$\frac{1$$