Proof (in 3 ports) $\sum_{i=1}^{n} (x_i - \mu)^2 = \sum_{i=1}^{n} (x_i - \mu)^2 - \sum_{i=1}^{n} (x_i - \bar{x} + \bar{x} - \mu)^2$ $(x_i - \bar{x} + \bar{x} - \mu)^2 = \sum_{i=1}^{n} (x_i - \mu)^2 - \sum_{i=1}^{n} (x_i - \bar{x} + \bar{x} - \mu)^2$ N/2(n) by generalic forme $= \sum_{i=1}^{n} \frac{(x_i - \overline{x})^2}{(x_i - \overline{x})^2} + \sum_{i=1}^{n} \frac{(\overline{x} - \mu)^2}{(\overline{x}^2 - \mu)^2} + 2 \sum_{i=1}^{n} \frac{(x_i - \overline{x})(\overline{x} - \mu)}{(\overline{x}^2 - \mu)^2}$ $-\sum \frac{(x_{i}-\bar{x})^{2}}{6^{2}} + \frac{n(\bar{x}-\mu)^{2}}{6^{2}} + 2(\bar{x}-\mu)\sum (x_{i}-\bar{x})$ $= \sum (x_i - \overline{x})^2 + (\overline{x} - \mu)^2$ $= \sum (x_i - \overline{x})^2 + (\overline{y} - \mu)^2$ $= \sum (x_i -$ Note: Class ended here