$$\overline{\lambda} = \frac{x_1 + x_1 + x_2 + x_1 + x_2 + \dots + x_R}{\eta}$$

$$= \frac{x_1 + x_1 + x_2 + \dots + x_R}{\eta}$$

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$$\frac{\chi_{i}}{y} = ax_{i} + b$$

$$\frac{\chi_{i}}{y} = \frac{\chi_{i}}{y} = \frac$$

ax + b

Show
$$S^{2} = \frac{\sum x_{i}^{2} - n \overline{x}^{2}}{n - 1}$$

$$S^{2} = \frac{\sum (x_{i} - \overline{x})^{2}}{n - 1}$$

$$\sum (x_{i} - \overline{x})^{2} = \sum (x_{i}^{2} - 2x_{i} \overline{x} + \overline{x}^{2}) = \sum ($$

 $= \sum_{x}^{2} - 2n \times^{2} + n \times^{2} = \sum_{x}^{2} - n \times^{2}$