Task 2:

Show that:

$$1 = \frac{\sum_{i=1}^{n}}{\sum_{i=1}^{n}} = \frac{\sum_{i=1}^{n} x_{i}^{2} - x_{i}^{2}}{y_{i}^{2} - x_{i}^{2}}$$

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=
$$\frac{2 \sqrt{\chi^2 - \frac{2}{3} \chi^2 \sqrt{3}} - \sqrt{3}}{\sqrt{3} \sqrt{3} - \sqrt{3}} / \chi^2 \hat{\beta} T = \sqrt{4} \xi$$
 where $\xi = \frac{2 \chi \chi^2 - \frac{2}{3} \chi^2 \sqrt{3}}{\sqrt{3} \sqrt{3} - \sqrt{3}}$

=
$$\frac{\alpha_1^2 + \frac{1}{2}x\xi - \alpha_2^2}{\xi + \frac{1}{2}x\xi - \alpha_2^2}$$
 | Property X:5 oxthogonal to