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Explain each steps in deriving the proof

Shows that:

$$\frac{\frac{1}{n} \sum_{i=1}^n x_i y_i - \bar{x} \bar{y}}{\frac{1}{n} \sum_{i=1}^n x_i^2 - \bar{x}^2} = \frac{\sum_{i=1}^n (x_i - \bar{x})(y_i - \bar{y})}{\sum_{i=1}^n (x_i - \bar{x})^2}$$

(25 marks)



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