

## GRADIENT STATISTIC: PROPERTIES AND APPLICATIONS

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- *ABSTRACT: In this work we show in a simple and intuitive way, with graphical illustrations, the gradient statistic, based on Buse (1982), and we also comment about the formulation of the likelihood ratio, Wald and score statistics. Some properties of the gradient statistic are presented, making use of simple examples and comparisons with the other three statistics mentioned..*
- *KEYWORDS: Gradient statistic; likelihood ratio statistic; Wald statistic; score statistic; chi-squared distribution.*

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