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Bayesian methods of inference involve the systematic formulation and use of Bayes’ theorem. These approaches are distinguished from other statistical approaches in that, prior to obtaining the data, the statistician formulates degrees of belief concerning the possible models that may give rise to the data. This is the continuous form of Bayes’ theorem; it is sometimes summarized as the posterior density is proportional to likelihood times prior density. The resolution of the problem of assigning a prior distribution to the parameter \( \theta \) by the use of Bayes’ postulate caused controversy. Bayes’ postulate is, in brief, the assumption that, if there is no information to the contrary, then all prior probabilities are to be regarded as equal.