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Tanweer Shapla* (tshapla@emich.edu), Mathematics Department, Eastern Michigan University, Ypsilanti, MI 48197. *Model Assessment Practice: See Beyond Calculus.*

Fitting models or functions to real data are common practice in a calculus class. It is with no doubt that the real data are not naive enough to follow a model deterministically. Therefore, the optimization rule of calculus comes handy in minimizing the error of the resultant model. However, in deciding the right model out of the other alternative models, the assessment of the adequacy of the resultant model is necessary. Unfortunately, the criteria of the model adequacy is often being ignored in calculus class, and thus the modeling is done superficially. In this presentation, we address several criteria of model adequacy, along with their applications in real data setting. (Received September 13, 2015)