

COLLOQUIUM

3:30 P.M.

OCTOBER 20, 2009

LYTLE HALL 218

Limits in Metric Spaces

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ABSTRACT

This talk is about the generalization of the absolute value metric as seen in Calculus I to a distance metric on an arbitrary set M . The students who have had Calculus know of real-valued functions of one, two, or three variables, whose domains are \mathbb{R}^1 , \mathbb{R}^2 , and \mathbb{R}^3 , respectively. We generalize the limit concept to real-valued functions of higher dimensions. Also, we will look at \mathbb{R}^2 with two other metrics defined on it.

Refreshments served between 3:00 and 3:30 p.m.

The talk begins at 3:30 p.m.