

BROWN BAG MATH COLLOQUIUM

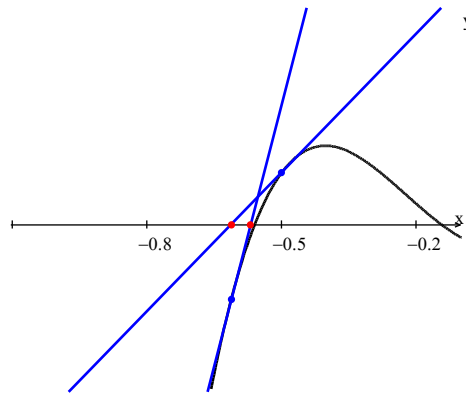
SPEAKER: Shawn Robinson
Asst. Professor of Mathematics, CMU

TITLE: The Dynamics of Newton's Method

WHEN: Friday, Feb. 6, 2015, at noon

WHERE: Wubben Science 131

ABSTRACT:



Newton's Method is a numerical algorithm designed to approximate roots of differentiable functions. In particular, given a starting point in the domain of the function, it generates a sequence of points that almost always converges to a root of the function. In this seminar we will examine what we mean by "almost always" and what could happen in cases when the sequence does not converge. The short answer: whatever bad behavior you can imagine does in fact occur.