

1077-D1-2484      **John A Velling\*** (jvelling@brooklyn.cuny.edu), 2900 Bedford Avenue, Brooklyn, NY 11210.  
*MathLynx: the Online and CAS-based Mathematics Pedagogy Environment - Tools for Learning and Practice.*

MathLynx is the first interactive online text/tutorial/evaluation mathematics pedagogy environment. For two years the author has been using interactive text with randomly generated embedded examples and supporting materials. Student practice sessions are tracked and feedback is immediate. Practice sessions are directly related to limited repetition evaluation (test) sessions.

Anecdotal evidence indicates that by changing the notion of success from ability to perform algebraic manipulation to ability to complete complex tasks, a surprisingly high proportion of students given opportunity to familiarize themselves with the algorithmic pieces of said tasks are able to succeed.

Material and evidence from calculus of one variable and multivariable classes will be presented. (Received September 22, 2011)