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Classroom Voting in Linear Algebra.

Classroom voting allows us to move away from lecture and towards a student-centered, interactive classroom. Rather than just telling the students about linear algebra, it is possible to ask questions that will draw the knowledge out of the students and engage them in vibrant discussions. We will present several such questions for linear algebra from a library developed by NSF-funded Project Math Quest, including questions that explore applications, theory, and geometric interpretations. We will also discuss strategies for using the questions effectively so that the same course material can be covered, with less time spent on lecture. (Received September 14, 2007)