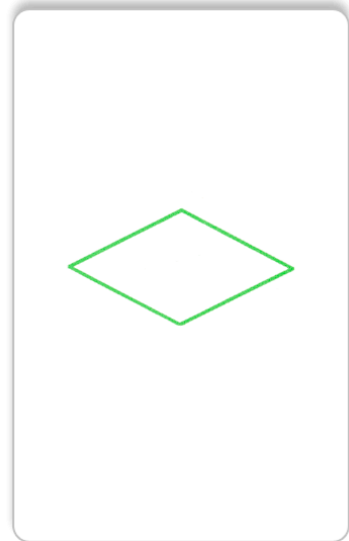
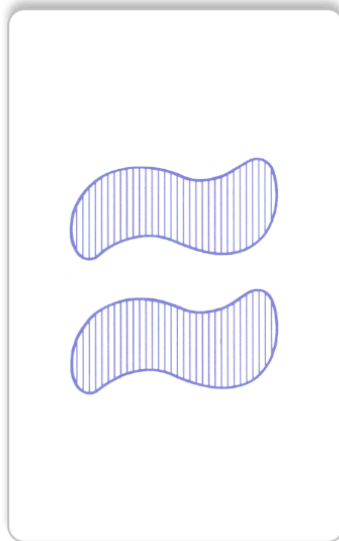
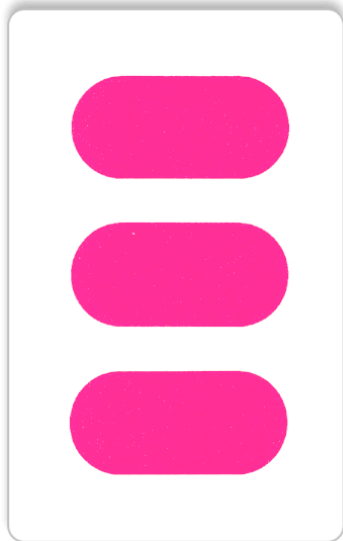


GAME, SET, MATH!



Come learn about
the math behind
SET® and impress
your friends when
you play!

Professor Liz McMahon from Lafayette College

Abstract: The card game SET is played with a special deck of 81 cards. We can learn a lot about the game through combinatorics, probability, linear algebra and geometry. In addition, the cards are a good model for the finite affine geometry $AG(4,3)$; we will see how to use the geometry to explore the game and, even better, how to use the game to understand the structure of the geometry. There is a surprisingly beautiful structure to complete caps, which are collections of cards with no sets. If you'd like some practice with the game before the talk, go to www.setgame.com for the rules and a Daily Puzzle.

Wednesday, April 4th
7:00 PM, Silsby 028

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For more information go to: <http://www.math.dartmouth.edu>.

