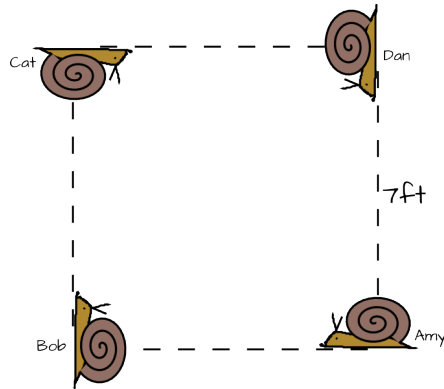


Math Challenge Problem

for January 2013

Snail Love Square



Four young snails are in love. Amy loves Bob, Bob loves Cat, Cat loves Dan, and Dan loves Amy. One day, the four snails happen to be standing in a perfect square, each 7 feet from the one they desire, as pictured above (not necessarily drawn to scale). All at once, the snails start inching their way towards the object of their affection, each moving at the same (slow) constant rate. This causes the snails to (slowly) spiral in towards the center of the square.

The Challenge: How far does each snail travel before they meet.

Submit solutions to Ross 2239G or to oscar.levin@unco.edu by *Friday, February 1*.

The best solution will be posted on the Math Challenge Problem webpage, and the submitter will receive a *PRIZE!*.

At the end of the semester, all submitters of correct solutions to challenge problems will be entered into a drawing for a *BIG PRIZE*.