## Problem of the month <br> April-May 2013

We are pleased to inform that Cameron Khalili and Katie Urabe wrote the best* solution for the March 2013 Problem of the Month. They have won the right to brag, and be correct in any mathematical discussion** that is held over the summer. They have also won a surprise 'math' gift.
Congratulations Cameron and Katie!
We encourage all students to keep submitting solutions to the POM.

You have until May $18^{\text {th }}$ to solve the problem below. Solutions can be either

1. written neatly on a sheet of paper and dropped in the mailbox outside PB 352 , or
2. typed up using your favorite text editing software ( $\mathrm{E}_{\mathrm{E}} \mathrm{EX}$ preferred) and then turned in via email at either asabuwala@csufresno.edu or ovega@csufresno.edu.

At the end of the month, we will review all solutions and post the names of the individuals who have turned in complete correct solutions, and who wrote the best* solution.

The student who writes the best answer for this month's problem wins the right to brag, and be correct in any mathematical discussion** that is held in April 2013. Moreover, he/she will get a surprise 'math' gift!!!

Bragging rights winners, solutions, past (and future) problems of the month, etc may be found on

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http://www.fresnostate.edu/csm/math/news-and-events/pom.html
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## Problem for April-May 2013.

Solve the following system of equations:

$$
\begin{aligned}
x^{2} y^{2}-2 x+y^{2} & =0 \\
2 x^{2}-4 x+3+y^{3} & =0
\end{aligned}
$$

Use algebraic techniques only and show all steps of your solution. Graphical and/or Numerical (using a computer) solutions will not be considered correct, but could be used to devise an algebraic solution strategy.

