

Rockhurst University Mathematics Problem of the Month

Congratulations to Kristina Carpenter, winner of September's contest. She wins a prize from the POM puzzle collection. Honorary mention goes to Peter Simone. The contest is open to any currently enrolled Rockhurst student. The winner will be chosen according to who has the best solution (not just answer) to the problem. Ties will be resolved by considering the order in which the solutions were received.

Solutions should be submitted to Keith Brandt (Richardson 120) by the end of the month. Winners receive wonderful prizes, so give these problems some thought!

Problems for October 2006:

1. Find the next term in the sequence: 1, 11, 21, 1211, 111221, ...
2. Here is a riddle about the ages of three sisters: Three times Vera's age minus Aya's age minus Eva's age equals -1. Vera's age plus twice Aya's age minus twice Eva's age equals -1. Vera's age minus five times Aya's age plus three times Eva's age equals 1. What are the ages of the three sisters?