

Problem of the Week, Fall 2006

12 October 2006

Circle One: Cadet Faculty Student (non USMA) Faculty (non USMA) Other

Last Name (Please Print):

Problem 6

Let  $a$  be the first number you obtain in two consecutive fair die throws and  $b$  the second.

What is the probability that the graph of the function  $y = (x - a)(x - b) + 1$  does not intersect the x-axis?

## **Submission Instructions**

Submit to : [MAJ Jong H. Chung](#)

How : As an attachment to an  
email(please make sure your  
name is in the attachment!)

With the subject line : WP POTW

Failure to follow these directions may result in your submission not  
making into the pile in the right order!