

Problem of the Week, AY 2007

26 April 2007

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

Last Name (Please Print):

** This is the last problem of this semester.**

Problem 23

Let the square matrices S and T have the same size. If $S^*T^*S^*T=0$, is $T^*S^*T^*S=0$?

If yes, prove it. If not, provide a counter example. '*' denotes matrix multiplication.

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!