CH 3.1 1/25/13 1:14 AM

WebAssign CH 3.1 (Homework)

Yinglai Wang MA 265 Spring 2013, section 132, Spring 2013 Instructor: Alexandre Eremenko

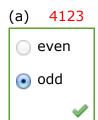
Current Score: 20 / 20 Due: Thursday, January 31 2013 11:40 PM EST

\_\_\_\_\_

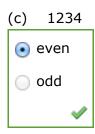
**1.** 6.66/6.66 points | Previous Answers

KolmanLinAlg9 3.1.003.

Determine whether each of the following permutations of  $S = \{1, 2, 3, 4\}$  is even or odd.



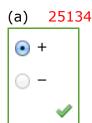




## 2. 6.66/6.66 points | Previous Answers

KolmanLinAlg9 3.1.005.

Determine the sign associated with each of the following permutations of the column indices of a 5  $\times$  5 matrix.







## **3.** 6.68/6.68 points | Previous Answers

KolmanLinAlg9 3.1.011.

Evaluate.

(a) 
$$\det \begin{pmatrix} \begin{bmatrix} 6 & 3 & 8 \\ 2 & 3 & 3 \\ 3 & 2 & 7 \end{bmatrix} \end{pmatrix}$$

(b) 
$$\begin{vmatrix} -4 & -2 & 1 \\ -2 & -1 & 2 \\ -1 & -6 & -1 \end{vmatrix}$$

(c) 
$$\det \begin{bmatrix} 0 & 0 & 0 & 6 \\ 0 & 0 & 1 & 0 \\ 0 & 8 & 0 & 0 \\ 4 & 0 & 0 & 0 \end{bmatrix}$$