

Attendance Quiz 12

Name: _____ Date : _____

1. Find the determinant by row reduction to echelon form.

$$(a) \begin{vmatrix} 1 & 5 & -3 \\ 2 & -3 & 3 \\ 2 & 13 & -7 \end{vmatrix}$$

$$(b) \begin{vmatrix} 1 & 3 & 3 & -4 \\ 0 & 1 & 2 & -5 \\ 2 & 5 & 4 & -3 \\ -3 & -7 & -5 & 2 \end{vmatrix}$$

2. Find the determinants where $\begin{vmatrix} a & b & c \\ d & e & f \\ g & h & i \end{vmatrix} = 7$.

$$(a) \begin{vmatrix} a & b & c \\ 3d & 3e & 3f \\ g & h & i \end{vmatrix}$$

$$(b) \begin{vmatrix} g & h & i \\ a & b & c \\ d & e & f \end{vmatrix}$$

$$(c) \begin{vmatrix} a+d & b+e & c+f \\ d & e & f \\ g & h & i \end{vmatrix}$$