ASSIGNMENT

1. Show that {(1, 2, 3), (2,3,4), (3,4,5)} is a linearly dependent set.
2. Show that {(2, 4, 6), (6, 4, 2)} is linearly independent.
3. If $A=\begin{bmatrix}1 & 2\\3 & 4\\5 & 6\end{bmatrix}$ and $B=\begin{bmatrix}7 & 8 & 9\\10 & 11 & 12\end{bmatrix}$, find AB.
4. Suppose $A = \begin{bmatrix}3 & 2\\2 & 2\end{bmatrix}$ and $B=\begin{bmatrix}2 & 3\\3 & 4\end{bmatrix}$. Find AB and BA.