1. W = $\{\begin{bmatrix}1\\2\\3\end{bmatrix}\begin{bmatrix}3\\2\\1\end{bmatrix}\}$, is span(w)=$R^3$?

   False

2. What is the size of basis on upper triangular matrix $A_{33}\begin{bmatrix}X & X & X\\0 & X & X\\0 & 0 & X\end{bmatrix}$?

   6

3. IS $\{\begin{bmatrix}2\\0\end{bmatrix}\begin{bmatrix}1\\0\end{bmatrix}\}$ a basis of R^2?

   False

4. What is the coordinate of $\begin{bmatrix}2 & 4\\6 & 8\end{bmatrix}$ with basis $\begin{bmatrix}2 & 0\\0 & 0\end{bmatrix}\begin{bmatrix}0 & 2\\0 & 0\end{bmatrix}\begin{bmatrix}0 & 0\\2 & 0\end{bmatrix}\begin{bmatrix}0 & 0\\0 & 2\end{bmatrix}$?

   $\begin{bmatrix}1 & 2\\3 & 4\end{bmatrix}$