Ex. 1.

Write the transition matrix from basis B_1 ={[2,1,1],[5,1,-2],[3,0,1]} to the unit basis B_2.

Ex. 2.

Write the transition matrix from basis B_1 ={[1,3,1],[2,0,1],[4,1,1]}
to B_2={[1,1,1],[0,2,1],[3,0,2]}

Ex. 3.

Solve exerciese 1 from homework 9 using the transition matrix P.

Ex. 4.

Check if the matrix $A=\begin{bmatrix} 4 & 0 & 3 \\ -2 & 3 & 1 \\ 1 & 0 & 2 \end{bmatrix}$ is diagonable. Find the Jordan matrix for A.