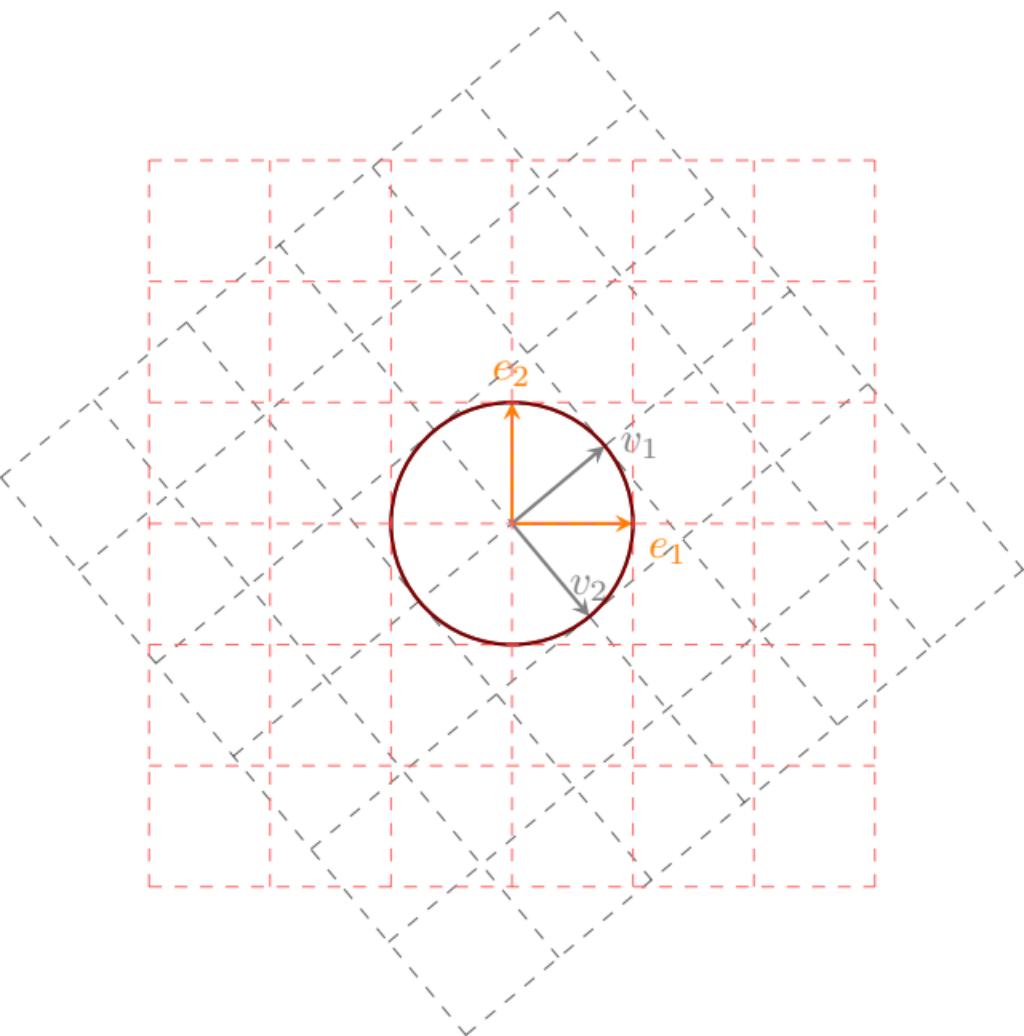
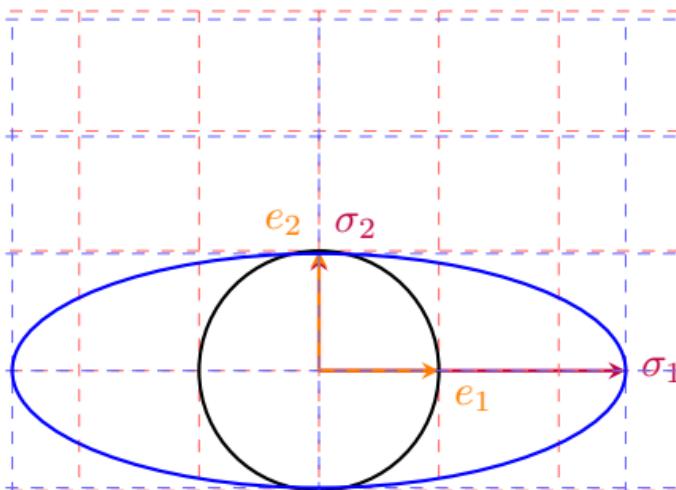


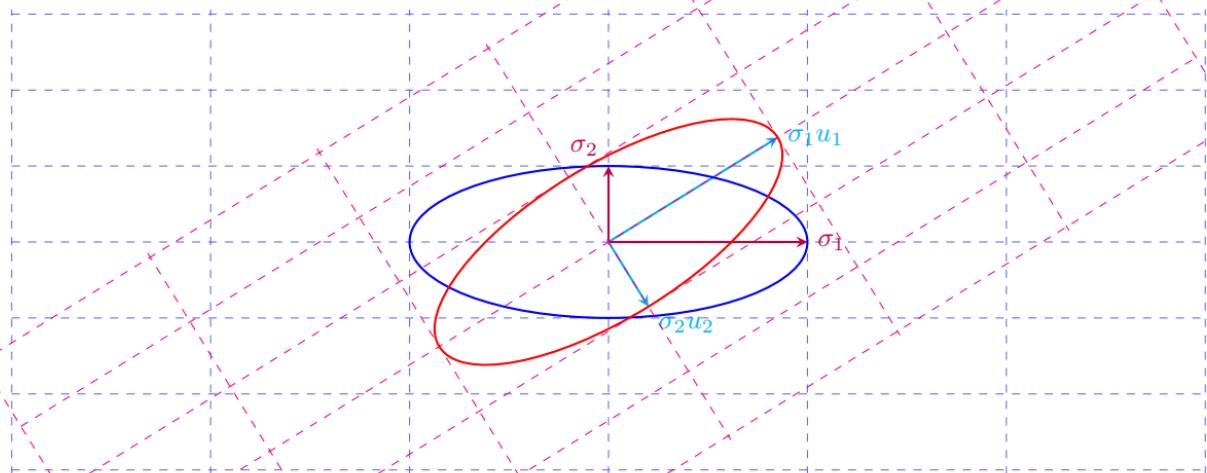
$$V^T X = \begin{bmatrix} 0.76775 & 0.64075 \\ 0.64075 & -0.76775 \end{bmatrix} X$$



$$\Sigma V^T X = \begin{bmatrix} 2.55834 & 0 \\ 0 & 0.97720 \end{bmatrix} \begin{bmatrix} 0.76775 & 0.64075 \\ 0.64075 & -0.76775 \end{bmatrix} X$$



$$U\Sigma V^T X = \begin{bmatrix} 0.85065 & 0.52573 \\ 0.52573 & -0.85065 \end{bmatrix} \begin{bmatrix} 2.55834 & 0 \\ 0 & 0.97720 \end{bmatrix} \begin{bmatrix} 0.76775 & 0.64075 \\ 0.64075 & -0.76775 \end{bmatrix} X$$



$$AX = \begin{bmatrix} 2 & 1 \\ 0.5 & 1.5 \end{bmatrix} X$$

