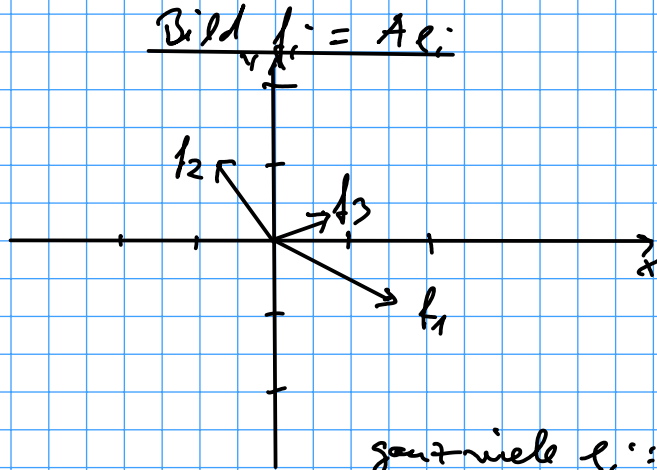
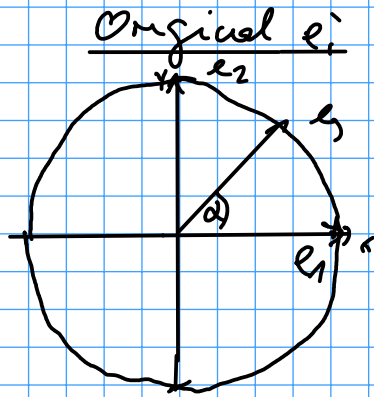


Abbildung des Einheitskreises



$$e_1 = \begin{pmatrix} 1 \\ 0 \end{pmatrix} \quad f_1 = A e_1$$

$$e_2 = \begin{pmatrix} 0 \\ 1 \end{pmatrix} \quad f_2 = A e_2$$

$$e_3 = \begin{pmatrix} \cos \alpha \\ \sin \alpha \end{pmatrix}$$

ganzzahlige e_i : (N Stück)

$$\varphi = 0 : \frac{2\pi}{N} : 2\pi \quad (\text{weil } \text{ges} : N+1)$$

$$e_i = \begin{pmatrix} \cos \varphi \\ \sin \varphi \end{pmatrix} = \begin{pmatrix} \cos 0 & \cos \frac{2\pi}{N} & \cos \frac{4\pi}{N} & \dots \\ \sin 0 & \sin \frac{2\pi}{N} & \sin \frac{4\pi}{N} & \dots \end{pmatrix}$$

$$A e_i = \begin{pmatrix} a & b \\ c & d \end{pmatrix} \begin{pmatrix} \cos 0 & \cos \varphi_1 & \dots \\ \sin 0 & \sin \varphi_1 & \dots \end{pmatrix} = (A e_1, A e_2, \dots)$$