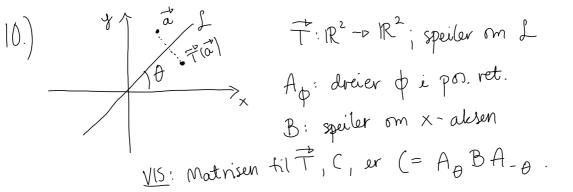
6.) Metode for å finne matrisen til en linearabildning: Se hva avhildningen gjór med enhetsvektorene.

$$T(e_{1}^{p}) = T((0)) = (2\cos\theta)$$

$$\frac{1}{2\sin\theta}$$

$$\frac{1}{2\cos\theta}$$

$$\frac{1}{2\cos\theta$$



Hvordan speile om L i flere skritt?

- 1) Rober O Sånn at I ligger "oppå" x ale sen: A-o
- 2) Speil om X-alexen (dus. roterte L): B
- 3) Roter O for å reversere steg 1.): AA

$$\frac{\text{Dus}}{3} : \qquad C = \underbrace{A_0 B A_{-e}}_{3) 2) 1)$$

$$\frac{Dus}{3} = \begin{pmatrix} A_{0}BA_{-\theta} \\ A_{0}BA_{-\theta} \end{pmatrix}$$

$$= \begin{pmatrix} A_{0}BA_{-\theta} \\ A_{0}BA_{-\theta} \end{pmatrix} \times$$

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$$= \begin{pmatrix} \cos 2\theta & \sin 2\theta \\ \sin 2\theta & -\cos 2\theta \end{pmatrix}$$

$$\begin{array}{c}
\vec{a} = \begin{bmatrix} -2 \\ 1 \end{bmatrix}, \quad \vec{b} = \begin{bmatrix} 1 \\ 3 \end{bmatrix} \\
\vec{e}_1 = x\vec{a} + y\vec{b} \\
\vec{e}_2 = z\vec{a} + u\vec{b}
\end{array}$$

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$$\begin{pmatrix}
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Fra figur:
$$\widehat{\overline{+}}([0]) = \begin{bmatrix} 5 \\ 0 \end{bmatrix}$$

Fra forige side:
$$\begin{bmatrix} 5 \\ 0 \end{bmatrix} = \begin{bmatrix} a_{11} + 6 \\ a_{21} \end{bmatrix} = b \qquad a_{11} = -1$$
Fra figur:

$$\overrightarrow{+}(\begin{bmatrix}0\\1\end{bmatrix})=\begin{bmatrix}6\\1\end{bmatrix}$$

$$F(0) = A[0] + [b] = \begin{bmatrix} a_{12} + b \\ 0 \end{bmatrix} = \begin{bmatrix} a_{12} + b \\ 0 \end{bmatrix}$$

$$\begin{bmatrix} a_{12} + b \\ a_{22} \end{bmatrix} = \begin{bmatrix} b \\ 1 \end{bmatrix} \implies a_{12} = \underbrace{0}$$

$$a_{\underline{22}} = 1$$

$$\underline{Sa}$$
: $A = \begin{bmatrix} -1 & 0 \\ 0 & 1 \end{bmatrix}$

$$\frac{1}{G}(\begin{pmatrix} 0 \\ 0 \end{pmatrix}) = \begin{pmatrix} 0 \\ -4 \end{pmatrix} = b^{2}; \text{ honstantledd}$$

$$\frac{1}{G}(\begin{pmatrix} 1 \\ 0 \end{pmatrix}) = \begin{pmatrix} 1 \\ -4 \end{pmatrix}$$

$$\frac{1}{G}(\begin{pmatrix} 0 \\ 1 \end{pmatrix}) = \begin{pmatrix} 0 \\ -5 \end{pmatrix}$$
The second of the sec

$$\vec{G}(\begin{bmatrix} 1 \\ 0 \end{bmatrix}) = \begin{bmatrix} 1 \\ -4 \end{bmatrix}$$

$$\vec{G}(\begin{bmatrix} 0 \\ 1 \end{bmatrix}) = \begin{bmatrix} 0 \\ -5 \end{bmatrix}$$

Samme regning som ia):