

$$f(\vec{a}) = \vec{b} + (6)$$

$$f(\vec{b}) = \vec{b} + (6)$$

A \in Rex 2 - Sputtern

Sputter vectorn von A:

\[
\begin{array}{c}
a\_{11} \\
\alpha\_{21}
\end{array}
\]

\[
\begin{array}{c}
a\_{21} \\
\alpha\_{31}
\end{array}
\] Zalor vettora (q, q, q, ) (az, a, z)

aij: Element in der Matrix in der i-t en Zaile
j-t en Spalte  $2) \quad \ell(xA) = (\ell-k)A \qquad \ell, k \in \mathbb{R}$   $2(-3)A = -6A = -6 \qquad (12) = (-6-12)$  -18 - 243) (l+ k) A = lA + kA Y) A + O = A $\begin{pmatrix}
1 & 2 \\
3 & 4
\end{pmatrix} + \begin{pmatrix}
0 & 0 \\
0 & 0
\end{pmatrix} = \begin{pmatrix}
1 & 2 \\
3 & 4
\end{pmatrix}$ 5) K(A+3) = KA+KB KeR Nie multiplisiert man z Matrison. 5. Verketting lin. A66. c) AB & BA i.d. R

7) 
$$(A 3) C = A(BC)$$

8)  $(A13) (= A C + B C)$ 

9)  $A(B) (= A C + B C)$ 

Enhals matrix in  $R^{2x}$ 
 $E_{2} = (C 1)$ 

A  $E_{2} = A = E_{1}A$ 

Noveme Matrix  $A^{-1} : A^{-1}A = AA^{-1} = E_{2}$  in  $R^{2x2}$ 

8i bodinat man  $A^{-1} : A = AA^{-1} = E_{2}$  in  $R^{2x2}$ 

Verbelting lim. Abb.

Gozelian:  $f_{1} : R^{2} - R^{2}$ 
 $f_{2} : R^{2} - R^{2}$ 
 $f_{3}(x^{2}) = Ax$ 
 $f_{3}(x^{2}) = f_{3} \circ f_{3}(x^{2}) = f_{3}(x^{2}) = g_{3}x^{2}$ 

Gornal:  $f_{3} = f_{3} \circ f_{3}(x^{2}) = f_{3}(Ax^{2}) = g_{3}(Ax^{2}) = g_{3}(Ax^{2})$ 
 $= g_{3}A x^{2} = C x^{2}$ 
 $C = g_{3}A$ 
 $C(G) = g_{3}A G) = g_{3}(G) = g_{3}(G)$ 

interval.

 $= (g_{3} : g_{3} + g_{3} : g_{3})$ 
 $= (g_{3} : g_{3} : g_{3} : g_{3} : g_{3} : g_{3})$ 
 $= (g_{3} : g_{3} : g_{3$ 

