Blatt 7

- 1) Pf. nicht füttern aberanfassen
 - Pf. Weder tütternoch anfossen
- 2) a) Vist 1 zum gesamfru VR U d.h. Allevaus U sind + zuv
 - P) $A \times E \times V \rightarrow (\times T \cup F) = (\S) \notin E$
- $\begin{pmatrix} 3 \\ b \\ c \\ d \end{pmatrix}$
 - 4) 5_{1} 3_{1} $|X|_{2} = \sqrt{x_{1}^{2} + x_{2}^{2}}$
 - 52 Noin
- 53 Nein
- b) $V = \begin{pmatrix} 3 \\ 6 \end{pmatrix} W = \begin{pmatrix} 0 \\ 2 \end{pmatrix}$
 - $S_1(v,w) = 1 0 + 2 \cdot 0 = 0 \Rightarrow \bot$
 - $52(V_1w) = 1.6 + 1.0.2 = 0 =$
 - $s_{3}(v_{1}w)=0$ = 7

$$C) = 65 \int_{1+1^{2}}^{1} \frac{1 \cdot 2 + 1 \cdot (-1)}{\sqrt{1+1^{2}}} Cos \left(\frac{1}{\sqrt{2} \cdot \sqrt{6}} \right)$$

d)
$$5_3 = 3.7.7 + 2.7.4 = 0$$

 $3 + 2 \times = 6$
 $4 = -\frac{3}{2}$

$$5$$
) $o)$ $s(a,b) = 7 \cdot (-1) + 1 \cdot 2 = 1$

b)
$$|a|_2 = \sqrt{1^2 + 1^2} = \sqrt{2}$$

 $|b|_2 = \sqrt{-1^2 + 2^2} = \sqrt{5}$

C)

$$d) 5 = 0$$

$$1 \cdot d + 1 \cdot (-1) = 0$$

$$\alpha = 1$$

(e)
$$|b|_2 = \sqrt{5} = > \tilde{b} = \frac{1}{\sqrt{5}}b$$

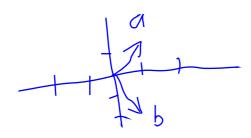
$$f) b = (\frac{7}{2}) - 1a + 2b = 0 \qquad \alpha = 1$$

$$-1 - 1 + 2b = 0$$

$$-1 + 2b = 0$$

$$b = \begin{pmatrix} 1 \\ 0 \\ 15 \end{pmatrix}$$

$$b = 0$$



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