Prüfung auf parallele Geraden

Donnerstag, 10. Juni 2021

$$\oint : \quad \stackrel{->}{\times} = \left(\begin{array}{c} 1 \\ 2 \\ 3 \end{array}\right) + \left(\begin{array}{c} 1 \\ 1 \\ 1 \end{array}\right)$$

$$S: \stackrel{-2}{\times} = \begin{pmatrix} 4 \\ 0 \\ 2 \end{pmatrix} + \left. \left(\begin{array}{c} -2 \\ -2 \\ -2 \end{array} \right)$$

Profe Richtungsvehloren auf Kollinearität:

$$\begin{pmatrix} \Lambda \\ \Lambda \\ \end{pmatrix} = S \cdot \begin{pmatrix} -2 \\ -2 \\ -2 \end{pmatrix}$$

$$1 = -2s = -0.5$$

$$1 = -2s$$
 = $s = -0.5$

1 = -2s => S = -0.5 Richtungsveldoren 1 = -2s => S = -0.5 Sind kollinear 1 = -2s => s = -0.5

Prife out geneinsamen Pinkt

nehme den Stutzvelder von f und überprüfe, ob er auf g brest:

$$\begin{pmatrix} 1 \\ 2 \\ 3 \end{pmatrix} = \begin{pmatrix} 4 \\ 0 \\ 2 \end{pmatrix} + \left(\begin{pmatrix} -2 \\ -2 \\ -2 \end{pmatrix} \right) - \begin{pmatrix} 4 \\ 0 \\ 2 \end{pmatrix}$$

$$\begin{pmatrix} -3 \\ 2 \\ A \end{pmatrix} = \begin{pmatrix} -2 \\ -2 \\ -2 \end{pmatrix}$$

darans ergibt sich folgendes Gleichungssystem

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Somit sind de beiden Geraden parallel.