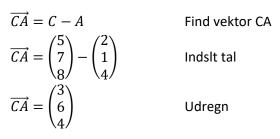
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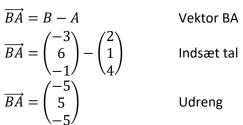
Opgave 491

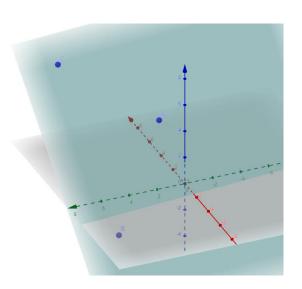
$$A = (2,1,4)$$

 $B = (-3,6,-1)$
 $C = (5,7,8)$

A er center







$$\binom{x}{y} = s_1 \cdot \overrightarrow{CA} + s_2 \cdot \overrightarrow{BA} + A$$

Formel for parameterfremstilling

$$\begin{pmatrix} x \\ y \\ z \end{pmatrix} = s_1 \cdot \begin{pmatrix} 3 \\ 6 \\ 4 \end{pmatrix} + s_2 \cdot \begin{pmatrix} -5 \\ 5 \\ -5 \end{pmatrix} + \begin{pmatrix} 2 \\ 1 \\ 4 \end{pmatrix}$$

Indsæt tal

$$\vec{n} = \overrightarrow{CA} \times \overrightarrow{BA}$$

Formel for kryds produkt

$$\vec{n} = \begin{pmatrix} a_y \cdot b_z - a_z \cdot b_y \\ a_z \cdot b_x - a_x \cdot b_z \\ a_x \cdot b_y - a_y \cdot b_x \end{pmatrix} \qquad \text{Forstår formel}$$

$$\vec{n} = \begin{pmatrix} 6 \cdot (-5) - 4 \cdot 5 \\ 4 \cdot (-5) - 3 \cdot (-5) \\ 3 \cdot 5 - 6 \cdot (-5) \end{pmatrix} \text{ Indslt tal}$$

$$\vec{n} = \begin{pmatrix} 50 \\ 5 \\ -45 \end{pmatrix} \qquad \text{Udregn}$$

$$\vec{n} = \begin{pmatrix} a \\ b \\ c \end{pmatrix} \qquad \qquad \text{Definer hvad komponenterne hedder}$$

$$a \cdot (x - A_x) + b \cdot (y - A_y) + c \cdot (z - A_z) = 0$$
 Formel for normalform
$$50 \cdot (x - 2) + 5 \cdot (y - 1) + (-45) \cdot (z - 4) = 0$$
 Indsæt tal

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Side **2** af **2**

 $50 \cdot x + 5 \cdot y + (-45) \cdot z = 75$ 10x + y - 9z = 15

Reducer Divider med 5