

Lunedì 10 maggio ore 15:00-18:00

Titolo nota

10/05/2021

parametri direttori della retta t
di minima distanza tra le rette

$$r: 2x - z = y = 0$$

$$s: y - 10z = x - 11 = 0$$

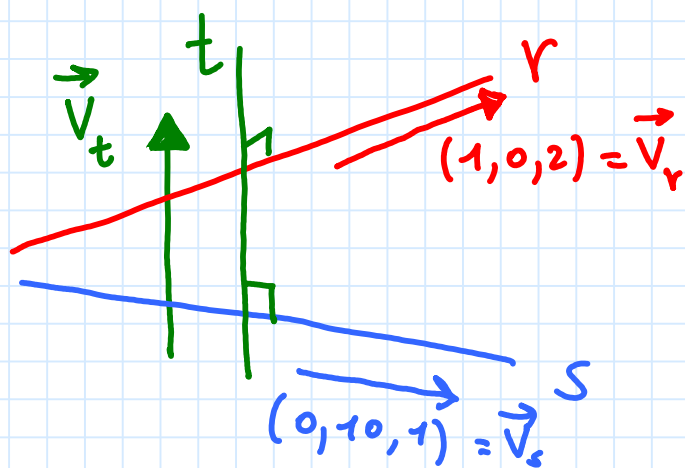
$$r: \begin{bmatrix} 2 & 0 & -1 \\ 0 & 1 & 0 \end{bmatrix} \begin{array}{l} \rightarrow l = +1 \\ \rightarrow m = -(0) = 0 \\ \rightarrow n = +2 \end{array}$$

$$(1, 0, 2) = \vec{V}_r$$

$$s: \begin{bmatrix} 0 & 1 & -10 \\ 1 & 0 & 0 \end{bmatrix} \begin{array}{l} \rightarrow l = 0 \\ \rightarrow m = -(10) = -10 \\ \rightarrow n = -1 \end{array}$$

$$(0, -10, -1)$$

$$(0, +10, +1) = \vec{V}_s$$



$$\vec{V}_t : \begin{array}{l} \vec{V}_t \perp \vec{V}_r \\ \text{AND} \\ \vec{V}_t \perp \vec{V}_s \end{array}$$

$$\vec{V}_t = \vec{V}_r \wedge \vec{V}_s = \det \begin{bmatrix} \vec{i} & \vec{j} & \vec{k} \\ 1 & 0 & 2 \\ 0 & 10 & 1 \end{bmatrix} =$$

$$= -20 \vec{i} - 1 \vec{j} + 10 \vec{k}$$

$$\vec{V}_t = (-20, -1, +10)$$

