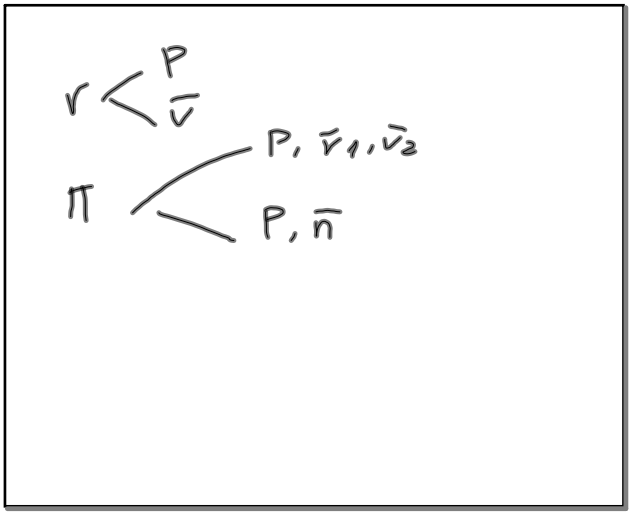
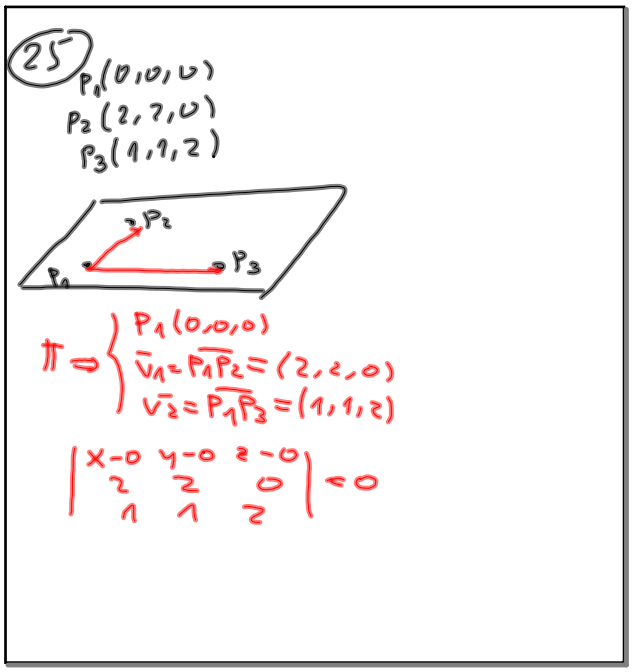
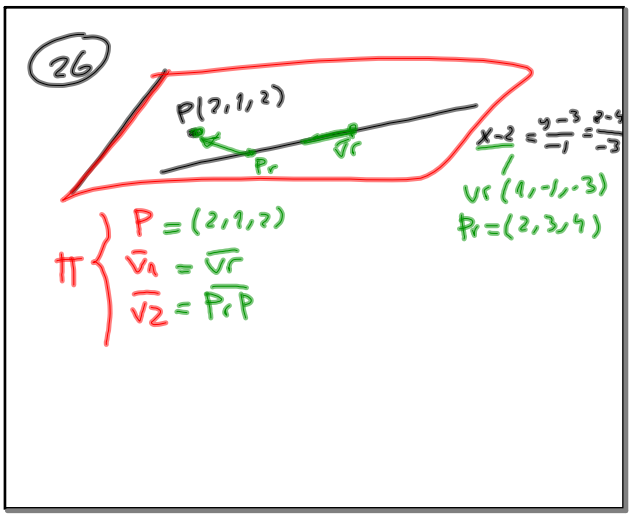


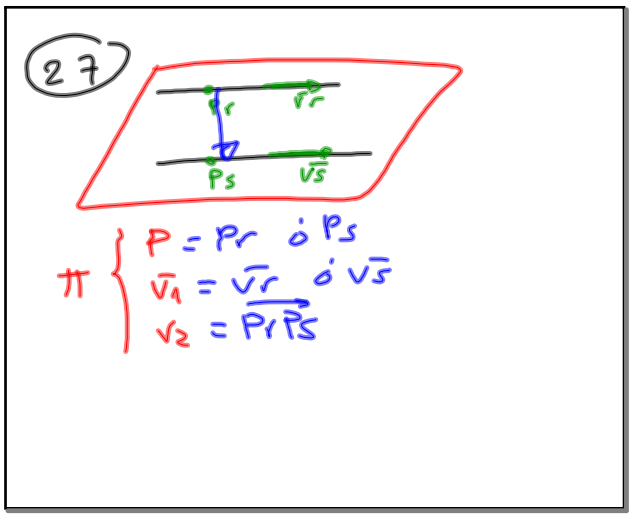
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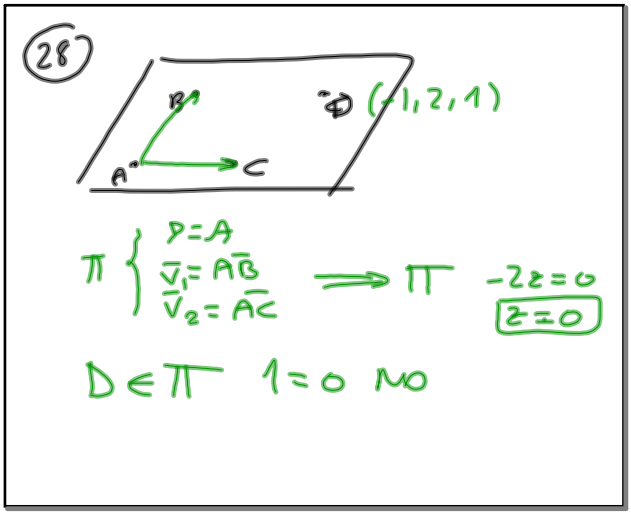
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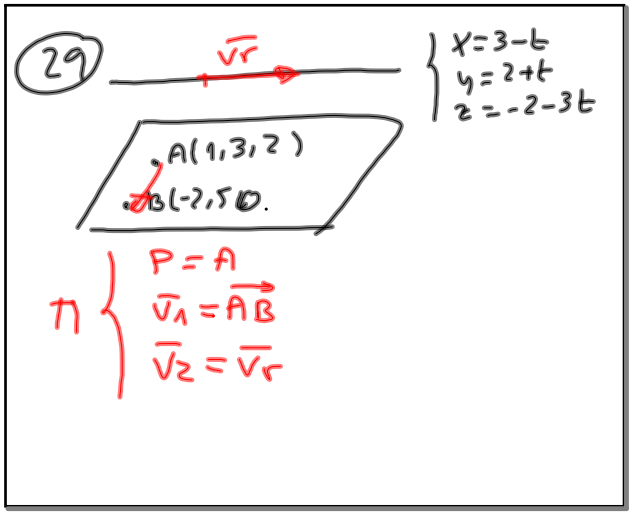
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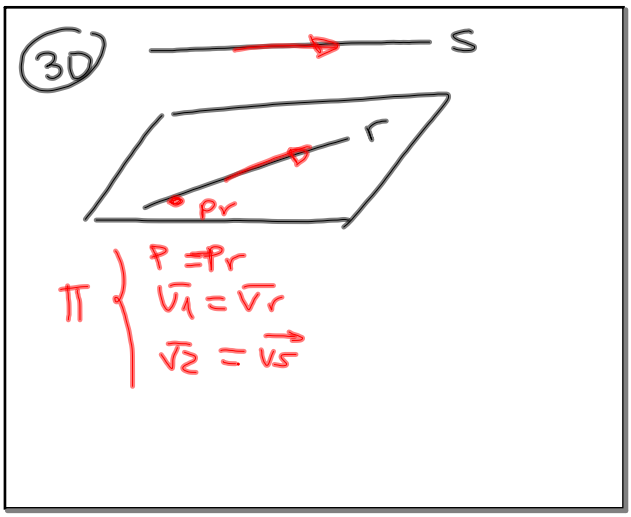
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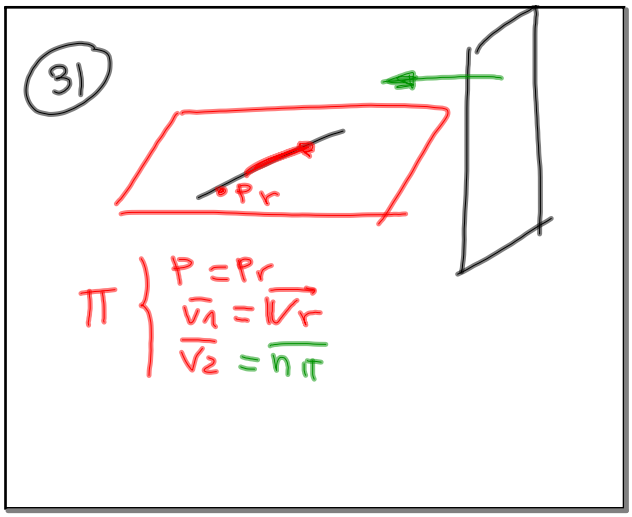
abr 26-13:28



abr 26-13:29



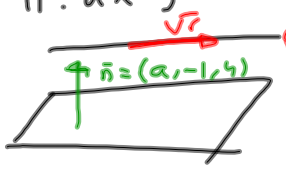
abr 26-13:31



abr 26-13:32

(32) $r: \begin{cases} 3x-y+z=0 \\ 2x-z+3=0 \end{cases}$

$\pi: ax-y+4z-2=0$



Expan.

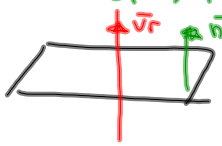
$x=\alpha$
$y=5\alpha+3$
$z=2\alpha+3$
$\vec{v}=(1,5,2)$

$\begin{vmatrix} \vec{i} & \vec{j} & \vec{k} \\ 3 & -1 & 1 \\ 2 & 0 & -1 \end{vmatrix}$

$\vec{n}_\pi \perp \vec{v}_r \Rightarrow \vec{n}_\pi \cdot \vec{v}_r = 0$

$(a,-1,4)(1,5,2)=0$

$a-5+8=0 \quad a=-3$

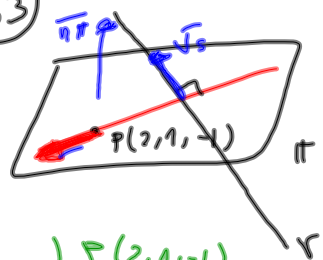


$\frac{a}{1}=\frac{-1}{5}=\frac{4}{2}$

(20)

abr 26-13:34

(33)



$r \Rightarrow \begin{cases} P(2,1,-1) \\ \vec{v} \Rightarrow \perp \vec{n}_\pi, \vec{v_s} \end{cases}$

$\vec{v} = \vec{n}_\pi \times \vec{v_s}$

abr 26-13:38

(22) $s: \frac{2x-1}{3}=\frac{y+3}{-2}=\frac{z-2}{0}=t$

Modo 1 $s: \frac{2x-1}{2}=\frac{y+3}{-2}=\frac{z-2}{0}$

$\frac{x-1/2}{3/2}=\frac{y+3}{-2}=\frac{z-2}{0}$

Modo 2 $\Rightarrow 2x-1=3t \quad x=\frac{3t+1}{2}=\frac{3}{2}t+\frac{1}{2}$

$y+3=3t \Rightarrow y=3t-3$

$z-2=0 \quad z=2$

abr 26-13:50

$\begin{cases} x=x_0+at \\ y=y_0+bt \\ z=z_0+ct \end{cases}$

$\frac{x-x_0}{a}=\frac{y-y_0}{b}=\frac{z-z_0}{c}=t$

abr 26-13:51