Escuela Politecrica Nacional Nombre: Fernando Eliceo Fhile lillagómez Curso: GH

Pregunta 1.

$$\vec{v} = \frac{10 \text{ m/s}}{10 \text{ m/s}}$$

$$\vec{v} = \frac{8 \vec{v} + \frac{4}{\sqrt{80}} \vec{v}}{\sqrt{80}}$$

v minma dinección à

$$\vec{\mathcal{U}}_{\vec{v}} = \mathcal{U}_{\vec{a}}$$

$$\vec{a} = 8\vec{1} + 4\vec{3} \text{ m}$$

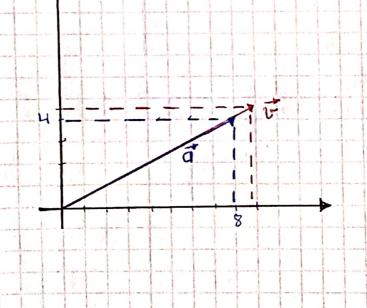
$$\vec{a} = 8\vec{1} + 4\vec{3} \text{ m}$$

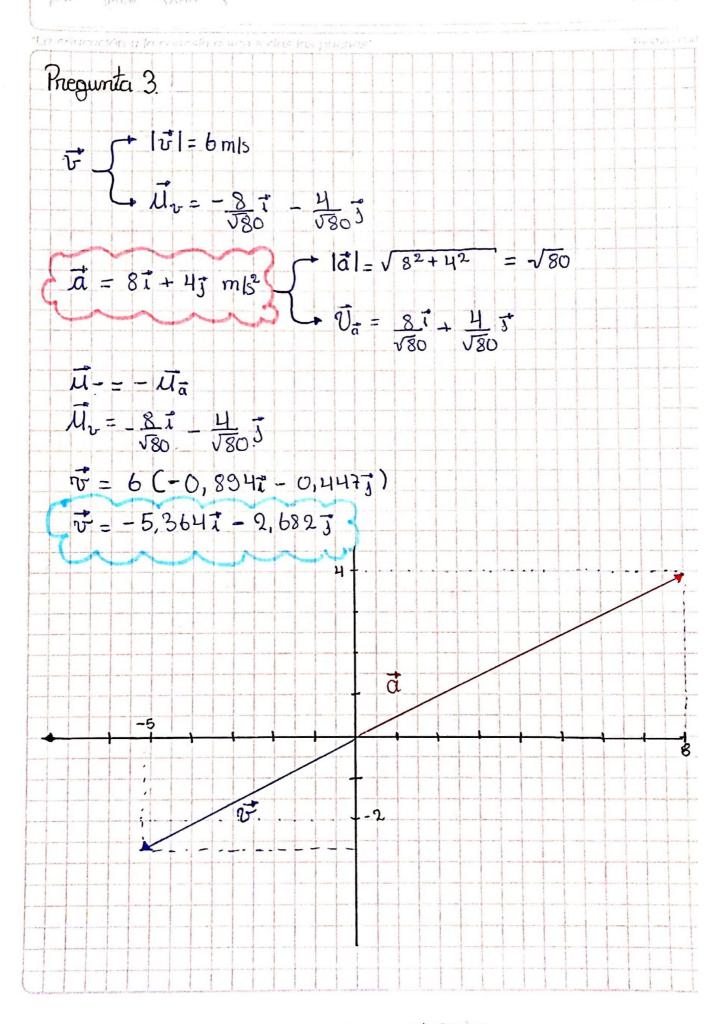
$$\vec{J}_{a} = 8\vec{J}_{a} + 4\vec{J}_{a} = 3\vec{J}_{a} + 3\vec{J}_{a} + 3\vec{J}_{a} = 3\vec{J}_{a} + 3\vec{J}_{a} + 3\vec{J}_{a} = 3\vec{J}_{a} + 3\vec{J}_{a} + 3\vec{J}_{a} + 3\vec{J}_{a} = 3\vec{J}_{a} + 3\vec{J}_{$$

$$\vec{v} = |\vec{v}| \vec{u}_{v} = 10 \left(\frac{8}{50} \vec{t} + \frac{40}{50} \vec{j} \right)$$

$$\vec{v} = \frac{80\vec{t}}{\sqrt{80}} + \frac{40}{50} \vec{j} m_{ls}$$

$$\vec{v} = 8.94\vec{t} + 4.47\vec{j} m_{ls}$$





Pregunta 5

DIA MER JAHR

$$\Delta \dot{r} = \begin{cases} +9 \, \text{m} = 1 \, \vec{\Delta} \dot{r} \, 1 \\ + \mathcal{U}_{\Delta r} = + \frac{2}{\sqrt{13}} \, \vec{t} + \frac{3}{\sqrt{13}} \, \vec{J} \end{cases}$$

$$\vec{a} = -2\vec{1} - 3\vec{j} \text{ m/s}^2$$

$$\vec{J}_a = -\frac{9}{\sqrt{13}}\vec{i} - \frac{3}{\sqrt{13}}\vec{j}$$

$$\vec{\Delta_{1}} = 9 \left(\frac{9}{\sqrt{13}} + \frac{3}{\sqrt{13}} \right)$$

$$\Delta \vec{r} = 10,39\vec{t} + 15,58\vec{j}$$

