$$\frac{Ex1}{V_{leman}} = 70.10^3 \cdot 10^4 \cdot 10^2 = 7,0.10^{10} \, \text{m}^3$$

$$\frac{E \times 2}{2m}$$
 $\frac{1}{10m}$
 $\frac{1}{10m}$
 $\frac{2}{20}$
 $\frac{2}{20}$
 $\frac{2}{20}$
 $\frac{2}{20}$
 $\frac{2}{20}$

$$E_{x}$$
 4: m, q, κ, w, s

$$E_{x}$$
 S $d = V \cdot k$ $a = \frac{V}{k}$ $a = \frac{d}{k^{2}}$ $E = \frac{1}{2} m \cdot V^{2}$

$$5 \int_{0}^{1} 2 \cdot {1 \choose 3} - \frac{1}{2} {2 \choose 3} = {2 \choose 6} - {1 \choose 3/2} = {1 \choose 9/2}$$

Ex3

$$\underbrace{Fx7} \qquad (|\vec{s}|| = \sqrt{S_x^2 + S_y^2} \qquad \Theta = \frac{1}{100} \left(\frac{S_y}{S_x}\right)$$

$$S_{1} = \begin{pmatrix} 1 \\ 1 \end{pmatrix} \qquad |S_{1}| = \sqrt{2} \qquad Q = \tan^{-1}(1) = \pi_{4}$$

$$S_{1} \text{ polare} = \begin{pmatrix} \sqrt{2} \\ \pi_{4} \end{pmatrix}$$

$$\vec{S}_{2} = \begin{pmatrix} -1 \\ 1 \end{pmatrix} | \vec{S}_{2}| = \sqrt{2}$$

$$\vec{S}_{2} = \vec{S}_{1} = \vec{S}_{2} = \vec{S}_{3} = \vec{S}_{4} =$$

$$\widetilde{\omega} = \widetilde{U} + \widetilde{U} = \begin{pmatrix} 3 \\ 6 \end{pmatrix}$$

$$||\vec{w}|| = \sqrt{3^2 + 6^2} = \sqrt{9 + 36} = \sqrt{45} = 3\sqrt{5}$$

$$||\vec{w}|| = \sqrt{3^2 + 6^2} = \sqrt{9 + 36} = \sqrt{45} = 3\sqrt{5}$$

$$(4) \cos(\theta) = \frac{w_x}{||\vec{w}||} \in \cos^2(\frac{w_x}{||\vec{w}||}) = 0 = \cos^2(\frac{3}{3\sqrt{5}}) = 1,11 \text{ Rad}$$

$$5) 2 - \frac{1}{2} = \begin{pmatrix} 4 \\ 6 \end{pmatrix} - \begin{pmatrix} 1 \\ 3/2 \end{pmatrix} = \begin{pmatrix} 3 \\ q/2 \end{pmatrix}$$

II.