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## 1ª Questão:

$$\int_{\zeta}^{\zeta} d\zeta = \int_{\zeta}^{\zeta} \frac{1 + \frac{1}{2} \lambda_{5}}{\Lambda \cdot d\Lambda}$$

$$S = 2 \int \frac{V dV}{V dV}$$

$$S = 2 \int_{0}^{V} \frac{du}{u \cdot 2k}$$

dr= du

$$S = ln |z + v^2|/V$$

$$S = ln \left| \frac{2 + v^2}{z} \right|$$

$$V = \sqrt{ze^5 - z}$$



$$V^{2} = e^{S} \cdot z - 2$$

$$V = \sqrt{2(e^{S} - 2)} = \sqrt{2(e^{S} - 1)} = \sqrt{2(e^{S} - 1)}$$

$$\begin{cases} X = 4 + \frac{1}{4} - \frac{1}{4} \\ y = 2 - \frac{1}{2} \end{cases}$$

$$P = \left(4 + t - \frac{t^2}{3}, 2 - \frac{t^2}{2}, 0\right)$$

$$\vec{\nabla} = \vec{P} = (1 - t^2) - t(0)$$

$$\vec{a} = \vec{p} = (-2t, -1, 0)$$

$$P/t = 1$$

$$\begin{cases} P/4 = 1 \\ P = (0, -1, 0) \end{cases}$$

$$|\vec{P}| = |\vec{V}| = \sqrt{o^2 + (1)^2 + o^2} = 1$$
  
 $|\vec{P}| = |\vec{\sigma}| = \sqrt{(-2)^2 + (-1)^2 + o^2} = \sqrt{5}$ 

$$\frac{1}{6} = \frac{\dot{p}}{1\dot{p}l} = (0, -1, 0)$$

$$on = |\vec{p} \wedge \vec{p}| \qquad |\vec{p} \wedge \vec{p}| = |\vec{1} \cdot \vec{3} \cdot \vec{k}| \\ |\vec{p} \cdot \vec{p}| = |\vec{1} \cdot \vec{3} \cdot \vec{k}| \\ |\vec{p} \cdot \vec{p}| = |\vec{1} \cdot \vec{3} \cdot \vec{k}| \\ |\vec{p} \cdot \vec{p}| = |\vec{1} \cdot \vec{3} \cdot \vec{k}| \\ |\vec{p} \cdot \vec{p}| = |\vec{1} \cdot \vec{3} \cdot \vec{k}|$$

$$Oin = \frac{2}{1}$$

$$\begin{aligned}
& \text{On} = \frac{2}{2} & |\hat{P} \wedge \hat{P}| = \sqrt{4} & 2 \\
& |\hat{P} \wedge \hat{P}| = 2
\end{aligned}$$

$$|\hat{P} \wedge \hat{P}| = \sqrt{4} & 2$$

$$|\hat{P} \wedge \hat{P}| = 2$$

$$\alpha^{2} = \alpha_{7}^{2} + \alpha_{n}^{2}$$

$$\alpha^{2} = \beta^{2} + 2^{2}$$

$$\alpha^{2} = \beta - 1$$