$$\frac{\partial}{\partial x} \left[\partial x \times \frac{\partial}{\partial x} \right] = \frac{\partial}{\partial x} \left[\partial x \times - \partial x \partial \right] = \frac{\partial}{\partial x} \partial x = \frac{x}{4}$$

$$\frac{\partial}{\partial \sigma} \left[\frac{nRT}{\sigma} \right] = nRT \frac{\partial}{\partial \sigma} \left[\frac{1}{\sigma} \right] = nRT \frac{\partial}{\partial \sigma} \left[\frac{\sigma}{\sigma} \right] = nRT \frac{$$

$$3x8 = \frac{1}{2}\frac{x}{x} + \frac{2}{1x - (x2)^2}$$

$$3x8 = -\frac{1}{2}\frac{x}{x} + \frac{2}{1x - (x2)^2}$$

$$\Delta S = \left(\frac{5x}{y} + \frac{1}{5} + \frac{1}{$$

$$\partial y T / \rho = e^{-\chi^2 - 2y^2 - 3z^2} \cdot (-2.2.y) / \rho = (1/11)$$

$$-\nabla T|_{p} = e^{-6}(-2,-4,-6) =$$

$$\wedge \text{ rester 4 liest points 4/2}$$

$$\wedge \text{ rection 89 trade}$$

$$\wedge \text{ rection 99 trade}$$

A rector Alot born the direction of the pos

let gend the omitary vector (just ger sin) not registed in this exercise

$$Q = \frac{(2x + 2z)}{(2x + 2z)}$$

$$Q = (2x + 2z)$$

$$G = \frac{1}{\sqrt{12+62}} = \frac{1}{\sqrt{12}} (11-6) = \frac{1}{\sqrt{12}} (12-3)$$

$$36) \qquad 8(x)(7) = x^{2} - (x)^{2} + x(x)^{2} - 2x$$

$$P = (11213)$$

a) Directioned sourcesture
$$S = \frac{1}{12} (1 - 10)$$

let compute $\nabla S_{p} = (S_{3}, S_{3}, S_{3})$ $\nabla S_{p} = (S_{3}, S_{3}, S_{3})$

$$3 \times 8 = 2 \times + 52^{3} - 2 = 2 \cdot 1 + 2 \cdot 3^{3} - 3 = 83$$

$$3 \times 8 = -25 + 2^{3} = -2 \cdot 2 + 1 \cdot 3^{3} = 23$$

$$3 \times 8 = 3 \times 52^{2} - 2 = -2 \cdot 2 + 1 \cdot 3^{3} = 23$$

$$3 \times 8 = 3 \times 52^{2} - 2 = -2 \cdot 2 + 1 \cdot 3^{3} = 23$$

$$3 \times 8 = 3 \times 52^{2} - 2 = -2 \cdot 1 + 2 \cdot 3^{2} - 1 = 83$$

$$* = (53, 23, 53). \frac{1}{(2)} \left(-\frac{1}{0} \right) = \frac{1}{(53.1 + 23-(-1) + 53.0)}$$



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APELLIDOS	NOMBRE		GRUPO	CALIFICACIÓN
ASIGNATURA	FECHA	DNI		

b) direction on 78/p = (53,23,53)is the one where sirectioned derivative

take the maximum value

the value 23: |78/p| = [537+237+537] = 78/4Mex whe or has

$$= \frac{2(2) - 0.2}{2^2} = \frac{4}{4} = 1$$

$$= \frac{-2.2 - 0}{2^2} = \frac{4}{4} = -1$$

$$\hat{G} = \begin{pmatrix} O_X \\ O_D \end{pmatrix}$$

$$|\nabla 8|_{\rho} \cdot \hat{\sigma} = 0$$

$$|\hat{\sigma}| = 1$$

$$|\hat{\sigma}| = 1$$

$$|\hat{\sigma}| = 1$$

$$|\hat{\sigma}| = 1$$

$$\int_{0}^{\infty} \frac{\partial x}{\partial x} + \frac{\partial y}{\partial y} = 0$$

$$\int_{0}^{\infty} \frac{\partial x}{\partial y} = \frac{1}{\sqrt{2}}$$

$$\int_{0}^{\infty} \frac{\partial x}{\partial y} = \frac{1}{\sqrt{2}}$$