$$S = \begin{cases} 8(x) dx = 1 \\ -\infty \end{cases} = \begin{cases} 8(x) dx = 1 \\ -\infty \end{cases}$$

$$S = \text{goverliged function} \end{cases} \begin{cases} 6(x) \\ -\infty \end{cases} = \begin{cases} 8(x) dx = 1 \\ -\infty \end{cases} = \begin{cases} 8(x) dx = 1 \\ -\infty \end{cases} = \begin{cases} 8(x) dx = 1 \\ -\infty \end{cases} = \begin{cases} 8(x) dx = 1 \\ -\infty \end{cases} = \begin{cases} 8(x) dx = 1 \\ -\infty \end{cases} = \begin{cases} 8(x) dx = 1 \\ -\infty \end{cases} = \begin{cases} 8(x) dx = 1 \\ -\infty \end{cases} = \begin{cases} 8(x) dx = 1 \\ -\infty \end{cases} = \begin{cases} 8(x) dx = 1 \end{cases} = \begin{cases} 8(x) dx = 1 \\ -\infty \end{cases} = \begin{cases} 8(x) dx = 1 \end{cases} = \begin{cases} 8(x) dx = 1 \\ -\infty \end{cases} = \begin{cases} 8(x) dx = 1 \end{cases} = \begin{cases} 8(x) d$$

as 
$$\varepsilon \to 0$$
 ;  $\int_{-\infty}^{\infty} S(\alpha) d\alpha = 1$ 

Q' Why disergence of 
$$\frac{5}{82} = 0$$
.

$$Solis \qquad \sum_{i=1}^{N} \left(\frac{3}{3^{2}}\right) = \frac{1}{3^{2}} \frac{3}{3^{3}} \left(3^{2} \frac{3}{2^{2}}\right)$$

$$= \frac{3^{2}}{3^{2}} \frac{3^{3}}{3^{3}} \left(3^{2} \frac{3^{2}}{3^{2}}\right)$$

$$= \frac{3^{2}}{3^{2}} \frac{3^{3}}{3^{3}} \left(3^{2} \frac{3^{2}}{3^{2}}\right)$$

But 
$$\beta(\nabla \cdot V) dZ = \beta V \cdot da$$

$$= (3) (22) \cos \theta d\theta d\theta d\theta$$

$$= \int \left(\frac{1}{3}\right) \cdot \left(3^{2} \text{ who dodd } 3\right)$$

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So  $(\nabla \cdot V)dz = 4\pi$ But V. & should be o. Also (6.4) dT is independ of 8. -) Here Bizzarity is at x=0, 32 20 D. -> So, this is. Dirac Delta from  $\nabla \cdot \left(\frac{\sigma}{\sigma^2}\right) = 471 \quad S^3(\sigma)$ D. (2) JE JUH 83 (8) 47 / 53 de -3 Charge density; point mass, point

whorge are also dirac delta functions.