$$\mathcal{X} = r \cos \pi u$$

$$\mathcal{Y} = r \sin \pi u \cos 2\pi v$$

$$S = N = \frac{1}{\pi} \cos^{-1} \left(\frac{\pi}{r} \right)$$

$$t = V = \frac{1}{2\pi} tan^{-1} \left(\frac{2}{9}\right)$$

$$\exists \mathcal{H} \rightarrow \text{potent} \left(\frac{\sqrt{2}}{2} r, 0, -\frac{\sqrt{2}}{2} r \right)$$

$$U = \frac{1}{\pi} \left(\cos^{-1} \left(\frac{\sqrt{2} r}{2r} \right) = \frac{1}{\pi} \cos^{-1} \left(\frac{\sqrt{2}}{2} \right) \right)$$

$$(OS) = \frac{\sqrt{2}}{2}$$

$$0S = \frac{\sqrt{2}}{2}$$

$$U = \frac{1}{\pi} \cdot \frac{\pi}{4} = \frac{1}{4} \qquad 0 \le M \le 1 \text{ only } \frac{\pi}{4} \text{ only } \frac{\pi}{6}$$

$$S = N = \frac{1}{\pi} \cos^{-1} \left(\frac{x}{r} \right)$$

$$t = V = \frac{1}{2\pi i} tan^{-1} \left(\frac{z}{y}\right)$$

$$\exists 1 \rightarrow po Trt \left(\frac{\sqrt{2}}{2} r, 0, -\frac{\sqrt{2}}{2} r \right)$$

$$V = \frac{1}{2\pi} + \partial n^{-1} \left(\frac{2}{y}\right) = \frac{1}{2\pi} + \partial n^{-1} \infty$$

tan 1 = 00

$$= \frac{\pi}{2} \text{ or } \frac{3}{2}\pi$$

$$V = \frac{1}{2\pi} \cdot \frac{\pi}{2} = \frac{1}{4}$$

$$= \frac{1}{2\pi} \cdot \frac{\pi}{2} = \frac{1}{2}$$

$$\Rightarrow (u,v) = \left(\frac{1}{4}, \frac{1}{4}\right)$$

$$Z(u,v) = rsTnTu STnZTv = rsTn $\frac{Tl}{4} \cdot STn \frac{Tl}{2} = \frac{r}{\sqrt{2}} \cdot l = \frac{12}{2}r$$$

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

<u>3</u>π

$$S = N = \frac{1}{\pi} \cos^{-1} \left(\frac{x}{r} \right)$$

$$t = V = \frac{1}{2\pi} tan^{-1} \left(\frac{z}{y}\right)$$

$$\exists \mathcal{A} \rightarrow \text{poInt} \left(\frac{\sqrt{2}}{2} r, 0, -\frac{\sqrt{2}}{2} r \right)$$

$$V = \frac{1}{2\pi} + \partial n^{-1} \left(\frac{2}{y}\right) = \frac{1}{2\pi} + \partial n^{-1} \infty$$

$$V = \frac{1}{2\pi} \cdot \frac{3\pi}{2} = \frac{3}{4}$$

$$\Rightarrow (u,v) = \left(\frac{1}{4}, \frac{3}{4}\right)$$

$$Z(u,v) = rsTnTu STn ZTIv = rsTn $\frac{\pi}{4} \cdot sTn \frac{3\pi}{2} = \frac{r}{\sqrt{2}} \cdot -1 = -\frac{r}{\sqrt{2}} = \frac{5\pi}{2}r$$$