$\int_{0}^{2\pi} f(\sin \theta, \cos \theta) d\theta = \int_{0}^{2\pi} \int_{$

$$I = 2\pi j \left(\text{Res} \left\{ \frac{2}{1} \right\} \right) = 2\pi j \frac{1}{\sqrt{1-\alpha^2}} = \frac{2\pi}{\sqrt{1-\alpha^2}}$$

$$I = \int_{1+\alpha}^{2\pi} \frac{d\alpha}{1+\alpha} = \frac{2\pi}{\sqrt{1-\alpha^2}}$$

$$= \sum_{\substack{1 = -1 \\ 2j \text{ (C)}}} \frac{26+1}{2(22-1)(2-2)} dz$$

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$$J = 2\pi j \left\{ \text{Re} \left\{ \frac{2}{2} = 0 \right\} + \text{Re} \left\{ \frac{2}{2} = \frac{1}{2} \right\} \right\}$$

$$\text{Re} \left\{ \left\{ 0 \right\} = \ln \frac{1}{2!} \frac{1^{2}}{4z^{2}} \left\{ \frac{2}{2} - \frac{2}{2!} \frac{1}{2} \right\} = \frac{21}{8}$$

$$\text{Re} \left\{ \frac{1}{2!} - \frac{1}{2!} \right\} = \frac{1}{2!} \left\{ \frac{2}{2!} - \frac{2}{2!} \right\} = \frac{-65}{24}$$

$$\frac{2}{2!} - \frac{1}{2!} \left\{ \frac{1}{2!} - \frac{1}{2!} \right\} = \frac{-65}{24}$$

$$\int \frac{c_{3}s_{0}}{5-4C_{1}s_{0}} ds = \frac{-1}{2j} \int \frac{6}{2+1} = 2\pi j \left[\text{Res} \left[s_{0} \right] + \text{Res} \left[\frac{1}{2} \right] \right]$$

$$= 3 \int \frac{G_{30}}{5} d\theta = \frac{-1}{2j} \left(2\pi j \right) \left(\frac{2l}{8} - \frac{65}{24} \right) \left[\frac{7}{2} \right]$$

$$= \frac{5}{4} - 4 + \frac{1}{2} \left[\frac{2\pi j}{8} \right] \left[\frac{2l}{8} - \frac{65}{24} \right]$$

16 in bound 21 = r m 121 m 20 2 2 dt , 2 or i 60 dm 20 C:|Z|=|=) $|Z|=\frac{1}{2}+\frac{12}{2}|dz=?$ |Z|=1 |Z|=1 $\int_{-\frac{\pi}{2}}^{2} \left(\frac{2\pi}{2} + \frac{12\pi}{2}\right) dz = \delta(2\pi + \frac{\pi}{2}) dz = \delta(2\pi + \frac{\pi}{2}) dz + \delta(2\pi + \frac{\pi}{2}) dz = 0 + 2\pi j$ (c) $2.\overline{2} = \Gamma^{2} =)\overline{2} = \frac{\Gamma^{2}}{2}$

$$\begin{cases} 2 = e \implies dz = jedo \\ 1dz| = do \end{cases}$$

$$\begin{vmatrix} 1 = \sqrt{(z+1)^2} & |dz| = ? \\ |z| = 1 \end{vmatrix}$$

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$$I = \sqrt{(2+1)^2} | d2| = ? - 2d^2$$

$$|2|=1$$

$$|2|=1$$

$$I = \int (2\pi i)^{2} |dz| = \int (2\pi i)^{2} dz = \int \frac{(2\pi i)^{2}}{jz} dz = 2\pi j \operatorname{Res}\{0\}$$

$$|z| = 1 \qquad |z| = 1 \qquad |z| = 1 \qquad |z| = 1$$

$$I = 2\pi i \left(\frac{1}{j}\right) = 2\pi i \qquad |z| = 2\pi i \operatorname{Res}\{0\}$$

$$|z| = 1 \qquad |z| = 1 \qquad |z| = 1 \qquad |z| = 1$$

$$2x^{2} - 2x^{2} + 2x^{2} = \frac{2+\sqrt{2}}{2}, \quad y = \frac{2-2}{2j}, \quad z = \frac{r^{2}}{2}$$

$$(-1)^{2} \int_{1}^{2} |z| + 4 dz = \int_{1}^{2} \frac{(2+1)(2+4)}{2} dz = 2\pi j \left[\text{Res} \{0\} \right] = 4\pi j$$

$$|z| = 1$$

$$|z| = 1$$

$$|z| = 1$$

$$|z| = 1$$

$$C: |2-1|=2, \qquad J=0 \xrightarrow{2^2+3^2+4} \frac{1}{4^2} \xrightarrow{-Vdc}$$

$$2 : [2-1]=2 \Rightarrow |2-1|=4 \Rightarrow (2-1)(2-1)=4 \Rightarrow (2-1)(2-1)=4$$

$$\Rightarrow (2-1)d+2+(2-1)d+2=0 \Rightarrow d+2=-\frac{2-1}{2-1}d+2 \Rightarrow (2-1)(2-1)=4$$

$$d+2=-\frac{4}{(2-1)^2}d+2 \Rightarrow [2-1]d+2 \Rightarrow [2-1]d$$