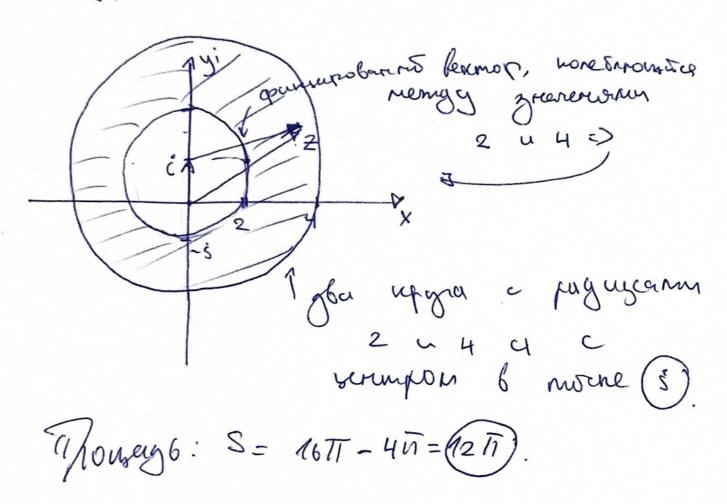
N Go

2 < 2 - 11 54



w3

Im
$$\frac{2}{z} = 1$$
 $\frac{2}{z^2} = 1$

Im $\frac{x-iy}{x^2+y^2} = 1$
 $-\frac{y}{x^2+y^2} = 1$
 $-y = x^2+y^2$
 $-x^2 = y^2+y$
 $-x^2 = y^2+y+\frac{1}{1}-\frac{1}{1}$
 $-x^2 = (y+\frac{1}{2})^2-\frac{1}{1}$
 $-x^2 = (y+\frac{1}{2})^2+x^2=\frac{1}{1}$

Output when $(y+\frac{1}{2})^2+x^2=\frac{1}{1}$

Output when $(y+\frac{1}{2})^2+x^2=\frac{1}{1}$

21 1+2+322+ ...+nEh-1 = h com nes moderdodostatation: c+Ez+Cz+"+E" no E+ E2+ + En = E(1+ E+ E3+ + Ch-4) = E En-1 guggeferungen obe Eacone 1+2c+3c2+...+hE"-1= == == + E. hE"-1(E-1)-(E"-1)= $=\frac{\epsilon^{n}-1}{\alpha-1}+\epsilon\frac{\epsilon^{h}(n-1)-h\epsilon^{h-1}+1}{(\epsilon-1)^{2}}=\frac{(\epsilon^{h}-1)(\epsilon-1)+\epsilon^{h+1}(h-1)-h\epsilon+\epsilon}{(\epsilon-1)^{2}}$ $= \frac{h \, \varepsilon^{h+1} - \varepsilon^{h} \, (n+1) + 1}{(\varepsilon - 1)^{2}} = \frac{\varepsilon^{h} (n \, \varepsilon - h - 1) + 1}{(\varepsilon - 1)^{2}} = \sqrt{\frac{(\varepsilon - 1) - 1)\varepsilon^{h} + 1}{(\varepsilon - 1)^{2}}}$ Bonpoc? Ha chorono suzur (n(e-1)-1)2h+1 4 n? En(n(c-1)-1)+1- he+h $(h(\varepsilon-1)-1)^{2h+1} = \frac{h}{(\alpha-1)^2} = \frac{h}{\alpha-1} = \frac{h}{(\alpha-1)^2}$ (2-1)2 my marcoe FUINT

W3.

wi Im Z=1

2= X +i

 $= x^{3} + 2x^{2} - 1 = (x+i)^{3} + 3 \neq x+i) - 1 =$ $= x^{3} + 2x^{2} - 2x \neq -1 + 3x + 5i - 1 =$ $= x^{3} + 3x^{2}i + i$

Im 2 (2) = 1+ 3 x2

Ro (2)= X3

eener D

Imw=1+3/Rew)

A

|z-i| = 1 |x+iy-i| = 1 |x+iy-i| = 1 $|x^2+y-1|^2 = 1$ $|x^2+(y-1)^2 = 1$ $|x^2-(y-2)| = 1$ $|x-y|^2 = 1$ |x-

$$\frac{\partial w}{\partial x} + i \frac{\partial w}{\partial y} = 0. \quad 2) 2x + 2iy - 2iy - 2x = 0$$

$$\frac{\partial w}{\partial x} + i 2y = 0. \quad \text{tem} \quad 3) - \frac{1}{(x+iy)^2} + \frac{1}{(x+iy)^2} = 0$$

$$\frac{\partial w}{\partial x} + i \frac{\partial w}{\partial y} = 0. \quad \text{tem} \quad 3) - \frac{1}{(x+iy)^2} + \frac{1}{(x+iy)^2} = 0$$

W5

1)
$$|f| = e^{r^2 \cos 2r} e$$
 $z = x + iy$
 z

2) Ary
$$f = xy$$
 $\Rightarrow P(x, y) = xy$.

$$\frac{JR}{Jx} = Rx \qquad \frac{JR}{Jy} = -Ry$$

$$4x = \frac{x^2}{2} + e(y) \qquad e^{\frac{x^2}{2} + e(y)} \qquad \frac{J}{Jy} = -e^{\frac{x^2}{2} + e(y)} y$$

$$R = e^{\frac{x^2}{2} + e(y)} \qquad Ju(y) = -y dy$$

$$4(y) = -\frac{y^2}{2} \qquad e^{\frac{x^2}{2} + ixy - y^2} = e^{\frac{x^2}{2} + ixy - y^2} = e^{\frac{x^2}{2} + ixy - y^2} = e^{\frac{x^2}{2} + ixy - y^2}$$

12=1. Z=eie (E[-17, 17) Jr 295 +ism-TT)=1 (-1+1.0-(-1)+1.0)=0 Sczdz zzeie dz=ieiede pe-ie. i eie de= i de= i (11+11)=(2:11 Se gdx -xdy 1) x=0 y=smp dy=usiede. = \int_{-3m^2\epsilon - \cos^2\epsilon + \sim^2\epsilon \delta = - \int_{-\alpha} de = - \int_{-\alpha} de = (-2\frac{1}{2}) y = sme = A 1/2 coxelde = - 2TX - 2 smell [-Sin²pde-(wsp+2)cuspde=-[1+2wspde=0]
(cusp+2)2+5m²e=-[1+2wspde=0]

$$\begin{cases}
(z) = U(x,y) + iy(x,y) - rapresentation (x) = 3 \\
3^{2}u_{1} + 5^{2}u_{2} = 0
\end{cases}$$

$$\begin{cases}
(z) = U(x,y) + iy(x,y) - rapresentation (x) = 3 \\
3^{2}u_{1} + 5^{2}u_{2} = 0
\end{cases}$$

$$\begin{cases}
2 \frac{3u}{3x^{2}} + \frac{5u}{3y^{2}} = 0
\end{cases}$$

$$\begin{cases}
2 \frac{3u}{3x^{2}} + \frac{3u}{3y^{2}} = 0
\end{cases}$$

$$\begin{cases}
3 \frac{3u}{3x^{2}} + \frac{3u}{3x^{2}} = 0
\end{cases}$$

$$\begin{cases}
3 \frac{3u}{3x^{2}} + \frac{3$$

$$\frac{2y}{x^{2}}\frac{\partial \varphi}{\partial x^{2}} + \frac{y^{2}}{x^{2}}\frac{\partial^{2}\varphi}{\partial x^{2}} + \frac{1}{x^{2}}\frac{\partial^{2}\varphi}{\partial (\frac{y}{x})^{2}} = 0 = 0$$

$$\frac{2y}{x^{2}}\frac{(\frac{y}{x})^{2}}{(\frac{y}{x})^{2}} - \frac{3y}{(\frac{y}{x})^{2}}\frac{(\frac{y}{x})^{2}}{(\frac{y}{x})^{2}} + 1 = 0$$

$$\frac{2y}{(\frac{y}{x})^{2}} - \frac{3y}{(\frac{y}{x})^{2}} + 1 = 0$$

$$\frac{y}{(\frac{y}{x})^{2}} - \frac{y}{(\frac{y}{x})^{2}} + 1 = 0$$

$$\frac{y}{(\frac{y}{x})^{2}} - \frac{y}{(\frac{y}{x})^{2}}\frac{(\frac{y}{x})^{2}}{(\frac{y}{x})^{2}} + 1 = 0$$

$$\frac{y}{(\frac{y}{x})^{2}} - \frac{y}{(\frac{y}{x})^{2}}\frac{(\frac{y}{x})^{2}}{(\frac{y}{x})^{2}} + 1$$

$$\frac{y}{(\frac{y}{x})^{2}} - \frac{y}{(\frac{y}{x})^{2}}\frac{(\frac{y}{x})^{2}}{(\frac{y}{x})^{2}} + \frac{y}{(\frac{y}{x})^{2}}\frac{(\frac{y}{x})^{2}}{(\frac{y}{x})^{2}} + \frac{y}{(\frac{y}{x})^{2}}\frac{(\frac{y}{x})^{2}}{(\frac{y}{x})^{2}} + \frac{y}{(\frac{y}{x})^{2}}\frac{(\frac{y}{x})^{2}}{(\frac{y}{x})^{2}} + \frac{y}{(\frac{y}{x})^{2}}\frac{(\frac{y}{x})^{2}}{(\frac{y}{x})^{2}}\frac{(\frac{y}{x})^{2}}{(\frac{y}{x})^{2}} + \frac{y}{(\frac{y}{x})^{2}}\frac{(\frac{y}{x})^{2}}{(\frac{y}{x})^{2}}\frac{(\frac{y}{$$

$$p(h) = \frac{1}{2\pi i} \int_{C} dz z^{-1-h} \prod_{k=1}^{\infty} \frac{1}{1-2k}$$

$$\prod_{k=1}^{\infty} \frac{1}{1-2k} \qquad 1-2 = 1+2+2^{2}+2^{3}$$

$$\lim_{k=1}^{\infty} \frac{1}{1-2^{2}} = 1+2^{3}+2^{6}+\dots$$

$$\lim_{k\to\infty} \frac{1}{1-2^{3}} = 1+2^{3}+2^{6}+\dots$$

$$p(1) = 1$$
 $p(4) = 5$

W11

 $\frac{1 + 2 z^{2}}{2^{3} + 2^{5}} = \frac{A}{2^{5}} + \frac{B}{2^{2}} + \frac{C}{2}$ $\frac{1 + 2 z^{2}}{2^{3} + 2^{5}} = A + 2B + 2^{2}C$ $\frac{2^{3} + 2^{5}}{2^{3}} = \frac{A + 2B + 2^{2}C}{2^{3}}$ $\frac{1 + 2^{2}}{2^{3} + 2^{5}} = \frac{A + 2B + 2^{2}C}{2^{3}}$ $\frac{1 + 2^{2}}{2^{3} + 2^{5}} = \frac{A + 2B + 2^{2}C}{2^{3}}$

 $A + 2z^{2} = A + z^{2}A + 2B + z^{3}B + z^{2}C(z^{4}C)$ A = A A + C = 2 $2B + 2^{3}B + 2^{4}B = 0$ A = A C = A B = 0 A = A C = A B = A C = A C = A B = A C =

y(1) = 0 $y(2) = \int_{2z}^{2z} dz = 1$ $y'(z) = \int_{2z}^{2z} dz = 1$ z = reie de z = rie de $z = \int_{2z}^{2z} dz = 1$ $z = \int_{2z}^{2z} dz = 1$

W13

$$S = \frac{1}{2(2-1)} \text{ a)} |z| + (91) \qquad f = -\frac{1}{2} - \frac{1}{421-2} = -\frac{1}{2} - \frac{1}{2} z^{n}$$

$$z_{0=0} \qquad \text{5)} |z| \in (1; + \infty) \qquad f = \frac{1}{2^{2}(1-\frac{1}{2})} = \frac{1}{2^{2}}.$$

$$z_{0=0} \qquad \text{5)} |z| = (1; + \infty) \qquad f = \frac{1}{2^{2}(1-\frac{1}{2})} = \frac{1}{2^{2}}.$$

W14

$$J=\frac{2}{2^2+1}$$
 g gymner $J = \frac{2}{5}$ $Z_0 = \hat{J} + E$ $Z_0 = 0$ $Z_0 = 0$

$$+ \frac{1}{24i(1+\frac{\epsilon}{2i})} = \frac{1}{2\epsilon} + \frac{1}{4i} \sum_{n=0}^{\infty} (-1)^n \cdot \left(\frac{\epsilon}{2i}\right)^n = \frac{1}{2(\epsilon-i)} + \frac{1}{2(\epsilon-i)}$$

$$+455(-1)^{h}\left(\frac{2-i}{2i}\right)^{h}=\sqrt{\frac{1}{2(7-i)}-\frac{1}{4}\sum_{h=0}^{\infty}(2-i)^{h}\left(\frac{1}{2}\right)^{h}}$$