(2).
$$f(z) = xy^{2} + ixy$$

$$\frac{\partial u}{\partial x} = y^{2} \quad \frac{\partial u}{\partial y} = 2xy \quad \frac{\partial v}{\partial x} = y \quad \frac{\partial v}{\partial y} = x$$

$$\begin{cases} x = y^{2} \\ 2xy = -x \end{cases}$$

$$y = -\frac{1}{\nu}, x = \frac{1}{4}$$

八白在各本一点了了,不解析

3. (3)
$$\frac{1}{2^{2}-1}$$
. (4) $\frac{az+b}{cz+d}$.

 $1 \le z^{2}-1 = 0$, $2 = 1$, $0 \ne \frac{a}{c} = \frac{b}{d}$ $0 \ne c = 0$. (3) $d = 0$ $0 \le c \ne 0$, $d \ne 0$,

8,
$$my^{3} + nx^{2}y + i(x^{3} + (xy^{2}))$$

 $\frac{\partial y}{\partial x} = 2nxy \frac{\partial y}{\partial y} = 3my^{2} + nx^{2}$
 $\frac{\partial y}{\partial x} = 3x^{2} + ly^{2} \frac{\partial y}{\partial y} = 2lxy$
 $\frac{\partial y}{\partial x} = 2lxy$
 $\frac{\partial x}{\partial y} + \frac{\partial y}{\partial y} + \frac{\partial y}{\partial y} = 0$
 $\frac{\partial x}{\partial x} + \frac{\partial y}{\partial y} + \frac{\partial y}{\partial y} = 0$

15.
$$\ln(-i) = \ln 1 - \frac{2}{2}i = -\frac{2}{2}i$$

 $\ln(-3+4i) = \ln 5 + \arctan \frac{2}{4}i$



$$\begin{array}{lll}
18. & e^{1-i\frac{2}{2}} & = e^{1}\left(\cos\frac{2}{2} - i\sin\frac{2}{2}\right) = -ei \\
& \exp\left[(1-i\pi)/4\right] = e^{\frac{2}{4}}\left(\cos\frac{2}{4} - i\sin\frac{2}{4}\right) = e^{\frac{2}{4}}\left(\frac{E}{2} - Ei\right). \\
& 3^{i} = e^{\ln s.i} = \cos\ln 3 + i\sin\ln 2. \\
& (Hi)^{i} = e^{i\ln Hi} = e^{i+\frac{2}{4}i} = \cos\left(\frac{HA}{4}\right) + i\sin\left(\frac{HA}{4}\right).
\end{array}$$