ANA U12 7.) J: D -> C 2 & D J. . . ist bei 2 komplex differen zierban  $22. \operatorname{def} df(2) = 1f'(2)|^{2}$   $\frac{\partial \operatorname{Re}(f)}{\partial x} = \frac{\partial \operatorname{Im}(f)}{\partial x} = \frac{\partial \operatorname{Re}(f)}{\partial y} \cdot \frac{\partial \operatorname{Im}(f)}{\partial y} = \frac{\partial \operatorname{Im}(f)}{\partial y} \cdot \frac{\partial \operatorname{Im}(f)}{\partial$ Candy - Rie mansche Differentialgleichungen  $= \left(\frac{\partial \operatorname{Re}(\xi)}{\partial x}\right)^2 + \left(\frac{\partial \operatorname{Im}(\xi)}{\partial x}\right)^2$