|             | classmate  |
|-------------|--|
|             | Date Page  |
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| \           |  |
|             | Tutorial 7   |
|             |  |
| 8           |  |
|             | Use Jordans Jemma & residere than  |
|             |  |
| 0           | are In the W. In the   |
|             | D is the closed disc   |
|             | You - Z-a 1D is the open disc  |
|             | 1-22 ment - 121-1  |
|             | (i) 12 = 1   |
|             | (Z-X)  |
| -           | ヹヹ-ヹヹ (モ)(をみ)  |
|             | .:  \frac{1}{\alpha}  \frac{1}{2-\alpha}) = \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \  |
|             | 121   2-x1   but 121+1 but  x1+1   |
|             |  |
| •           | (i) We are trying to prov ((10) \le 10   |
|             | codoman on ID is ID  |
|             | 4D (4x(2) <1 + 12  <1  |
|             | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \  |
| <u>U</u>    | Now on our open domain ( domain is always open), we apply  |
|             | selvent 2 MMT. o. Yx(2) is holomorphic hai   |
|             | The maximum value that our function takes is   |
| Ha = Poly A | moximum value is here attained   |
| pay B       |  |
| has no zer  |  |
| has no zer  | main. $ \psi_{\alpha} \left( \Psi_{\alpha} \left( 2 \right) \right) = \frac{2+\alpha}{1+\tilde{\alpha}^2} - \alpha $ $Z -  \alpha ^2 Z$ $Z =  \alpha ^2 Z$ |
|             | $\frac{1-\sqrt{2+x}}{1+\sqrt{2}}$  |
|             | (1+x2)   |
|             |  |
|             |  |
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|             | Septial 15-73 AutoMe.  |



