



- \* limits (including those involving  $\infty$ , precise definitions)
- \* continuity, differentiability
- \* Cauchy-Riemann } rectangular  
polar  
Wirtinger
- \* C/R as necessary for complex differentiability
- \* sufficient conditions for  $\mathbb{C}$ -differentiability
- \* Analytic  $f^n$ .  
(real analytic vs smooth  $f^n$ 's in  $\mathbb{R}^n$ )  
not examinable in mid-sem.