

# Formula Sheet EE2M11

MaybE\_Tree

2022-09-07

Triangle Inequality	$\begin{cases}  z_1 \pm z_2  \leq  z_1  +  z_2  \\  z_1 \pm z_2  \geq  z_1  -  z_2  \end{cases}$	
Limits to Infinity	$\begin{cases} \lim_{z \rightarrow z_0} f(z) = \infty \iff \lim_{z \rightarrow z_0} \frac{1}{f(z)} = 0 \\ \lim_{z \rightarrow \infty} f(z) = L \iff \lim_{z \rightarrow 0} f\left(\frac{1}{z}\right) = L \end{cases}$	<i>L must be finite, maybe??</i>
	CR1    u        v	
Cauchy-Riemann	$\begin{array}{cc} \text{x} & \frac{du}{dx} & \frac{dv}{dx} \\ & \text{//} & \text{//} \\ \text{y} & \frac{du}{dy} & \frac{dv}{dy} \end{array}$	