# Math Camp: Complex Numbers 

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## Complex Function Plots



Figure: $f(z)=z$

## Complex Function Plots



Figure: $f(z)=z^{4}$

## Complex Function Plots



Figure: $f(z)=z^{3}-1$

## Complex Function Plots



Figure: $f(z)=z^{5}+z-1+\frac{1}{z}$

## Complex Function Plots



Figure: $f(z)=\sin (z)$

## Complex Function Plots



Figure: $f(z)=\exp (z)$

## Complex Function Plots



Figure: Möbius Transformation: $f(z)=\frac{z-i}{z+i}$

## Complex Function Plots



Figure: Riemann-Zeta Function

## Complex Function Plots



Figure: Weierstrass Function

