Math 4513
MATHEMATICA Assignment 5
due Wednesday, October 6

1. Compile the commands in the "Sketching the complex function $f(z)=z^{3}$ " document posted at the web site ("http://www.math.ou.edu/ amiller/4513/ComplexGraph"). In parts III and IV try experimenting with some different curves $C$, including various circles.
2. Repeat problem 1 for $f(z)=z^{2}$.
3. Repeat problem 1 for $f(z)=\frac{1}{2+z^{2}}$ (watch out for singularities at $z= \pm \sqrt{2} i$ ).
4. Repeat problem 1 for $f(z)=e^{z}$ (remember that $e$ is $E$ in MATHEMATICA).
