

Panel 16

Home work

- ① A fixed point for a function $f(z)$ is a point where $f(z) = z$. Find the fixed point(s) for $f_c(z) = z^2 + c$ where $c = 1$.
use Maple
- ② A point z_0 is called periodic of period 2 if $f(f(z)) = z$. Find the period 2 points for $f_c(z) = z^2 + c$ when $c = -1$.
- ③ A point z_0 is called periodic of period n if $f^n(z) = z$. Are the period n points in K_c or not?
- ④ Is J_0 connected? How about J_{-1} ? And J_{-2} ?
Recall that J_c in the Julia set for $f_c(z) = z^2 + c$
- ⑤ Read chapter 4.2 including color plates!!!

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