

1135-D5-2673      **Robert L. Sachs\*** ([rsachs@gmu.edu](mailto:rsachs@gmu.edu)). *The i road to upper-level mathematics.*

Centering a “transitions” course around the complex number system, complex polynomials, and the basic complex transcendental functions has multiple advantages, particularly for student inquiry. Historically the complex numbers were both useful and in need of justification. Familiar properties of functions may or may not persist in the complex domain. Most topics in upper-level undergraduate mathematics are connected in part to this material. Several examples of student inquiry tasks will be given, but student work cannot be described yet as the author will be giving this course in the spring term. (Received September 26, 2017)