

Here is our list of major theorems from the semester (in alphabetical order).

- Argument principle
- Casorati-Weierstrass theorem
- Cauchy's formula for the radius of convergence of a power series
- Cauchy's inequalities for derivatives
- Cauchy's integral formula
- Cauchy's integral theorem
- Coincidence principle
- Darboux's theorem
- Hurwitz's theorem
- Liouville's theorem
- Morera's theorem
- Open mapping theorem
- Residue theorem
- Riemann's removable singularity theorem
- Rouché's theorem

Part A

State seven of these theorems.

Part B

Prove four of these theorems, including at least one that is named after a French mathematician and at least one that is named after a non-French mathematician.