Final examination

Here is the list compiled in class of ten interesting results covered this semester. (The list is in alphabetical order.)

- Bohr-Mollerup theorem

- Cauchy's integral theorem for multiply connected domains (the homology version)

- General pole-pushing lemma

- Jensen's formula

- Hadamard's factorization theorem for entire functions

- Hadamard's gap theorem

- Monodromy theorem

- Picard's little theorem (about the range of entire functions)

- Runge's approximation theorem

- Weierstrass factorization theorem for entire functions

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 not named after a French mathematician.