Math 241, Complex Manifolds
Fall 2023
From Donaldson's book :
1/24: p. 41, #9,11
1/31: p. 56, #5,6
2/7: p. 81, #2,4 For Problem 2 you want to use Proposition 14, not Proposition 12.
2/14: Given a compact connected Riemann surface Y of genus h, what are the numbers g so that there is a compact connected Riemann surface X of genus g along with a nonconstant holomorphic map $f : X \to Y$ having no critical points?
2/21: For $g = 0$, $g = 1$ and $g = 2$, what can you say about $h^0(D)$ as a function of d?
2/28: p. 129, #1
3/7: p. 208, #1
From Huybrechts' book :
3/14: p. 23 #3, p. 40 # 1
3/21: p. 50, #3
4/4: p. 75, #5
4/11: p. 103, #1
4/18: p. 123, #8
4/25: p. 172, #4