Math 53 (Multivariable Calculus), Section 102 & 108 Week 8, Monday Oct 10, 2022

For the other materials: seewoo5.github.io/teaching/2022Fall

- 1. Find the local maximum and minimum values and saddle point(s) of the function $f(x,y)=x^2+y^4+2xy$.
- 2. Find the points on the cone $z^2=x^2+y^2$ that are closest to the point (4,2,0).
- 3. Find the side lengths of the rectangular box with volume 8m³ that has minimal surface area.