

Lecture 27 Problems: Problem 1

(a): The ratio is about the difference in pH ^{difference in pH} 10 ^{50 about}
10 protonated : 1 deprotonated

(b): Same as (a), opposite ratio:

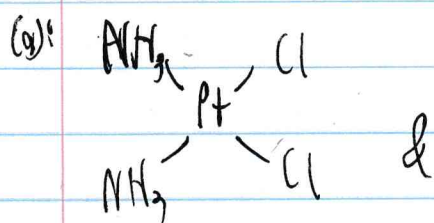
1000 deprotonated : 1 protonated.

Problem 2

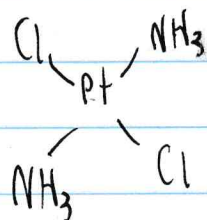
(a): 6 chlorines \Rightarrow 6 ligands

(b): 1 cobalt + x charge + 6 chlorine \cdot -1 charge $= -3 \Rightarrow x = +3$

Problem 3



cis platinum



trans platinum

(d) 90°

(e) 4