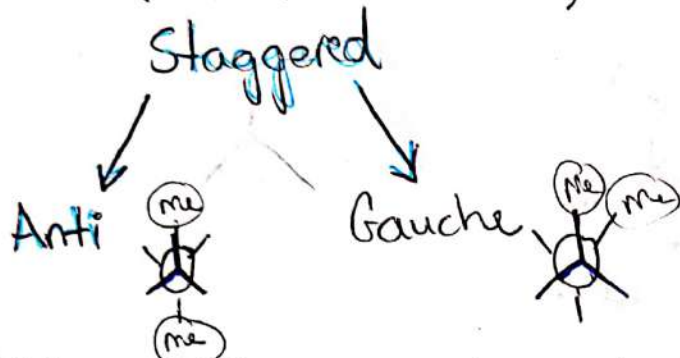


Ch 6.1 + 6.2

Name: Kay  
Date:           

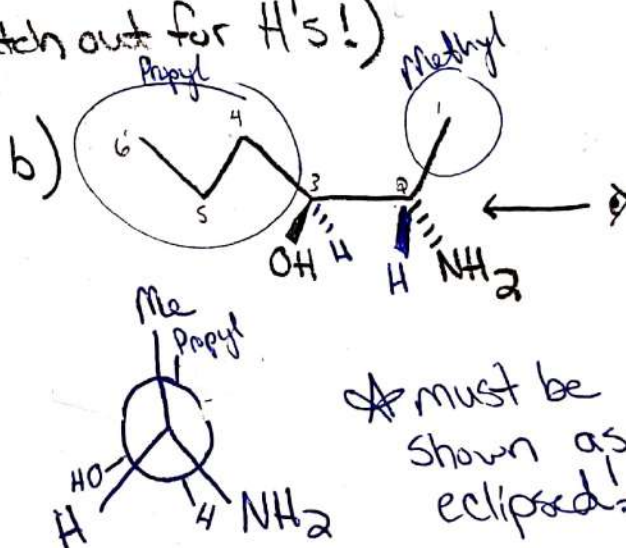
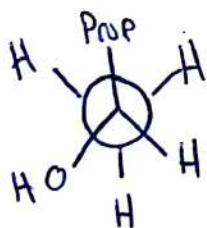
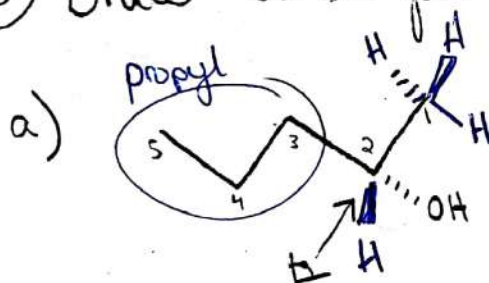
# Newman Projection practice #1

- ① List out (and draw) the different possible Newman Projections (Hint: there are <sup>examples</sup> 3!) Number them from least → most stable



- ② Why are there multiple projections for a single molecule?  
b/c single bonds can rotate!  
(and twist into many diff. arrangements due to that rotation)

- ③ Draw "what you see" (watch out for H's!)

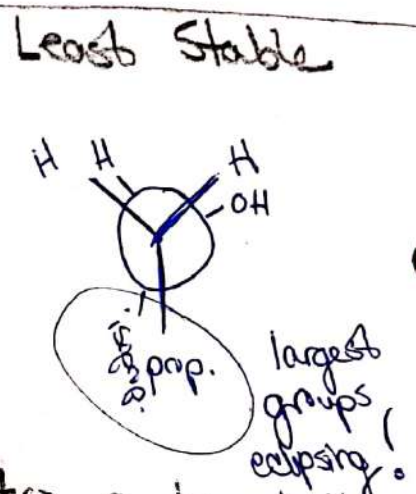
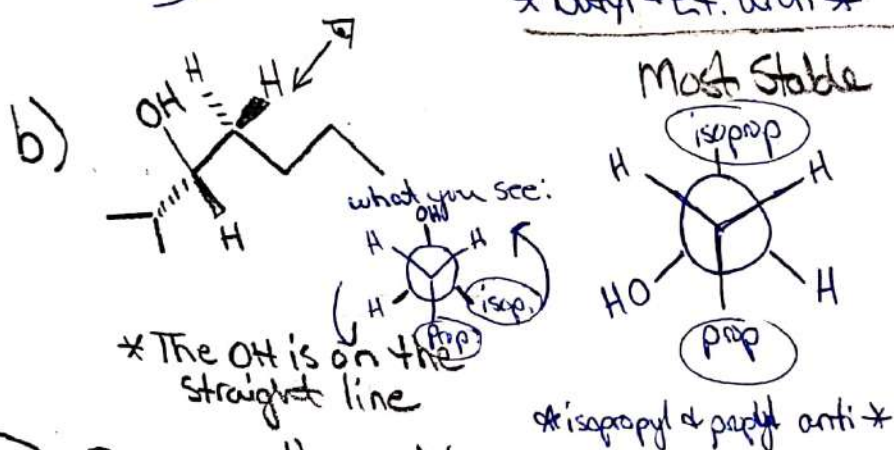
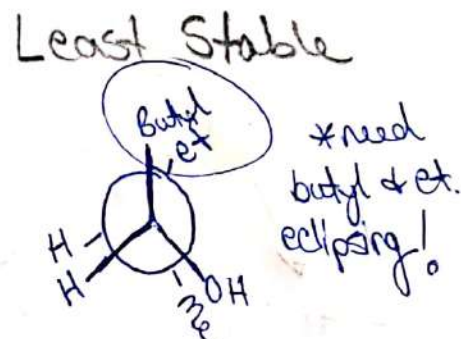
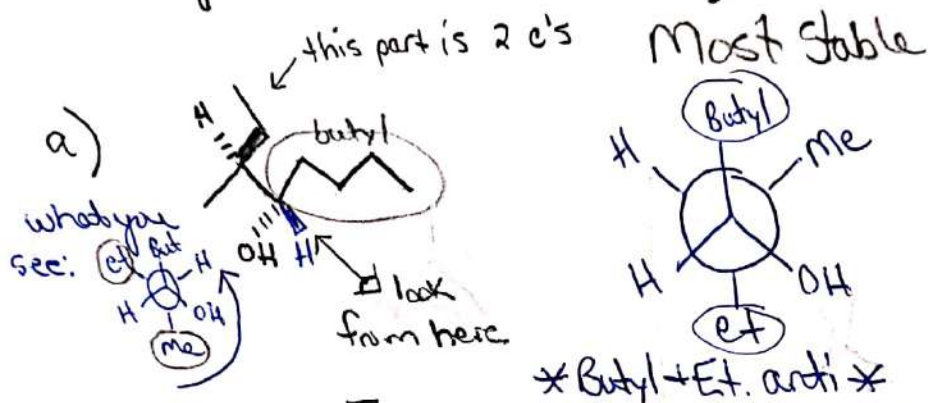


- ④ Describe the stability of the structures (as shown) in 3a & b.  
3a - in staggered pos. - pretty stable  
3b - Me & Prop are eclipsed \* NOT stable!

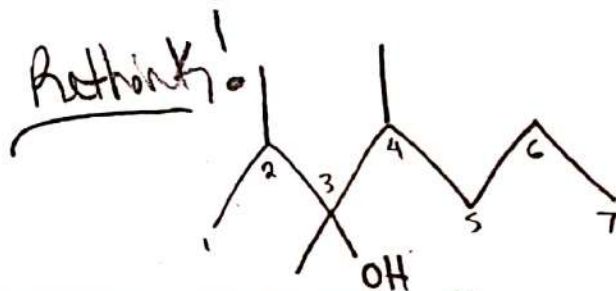
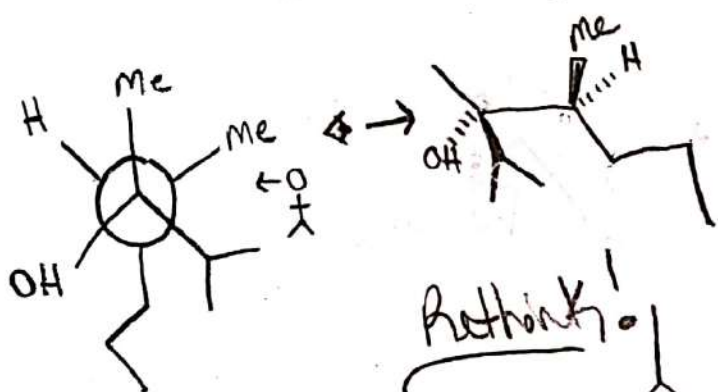
- ⑤ Name each structure in 3a & b. (ignore stereocenters R/S)  
a) pentan-2-ol      b) 2-aminohexan-3-ol

and label **Key**

⑥ Draw the most and least stable projections for each picture. (Hint: you may need to draw "what you see" then rotate!)



⑦ Draw the Newman projection into a bond-line structure, use wedges & dashes too! ☺



b) Name it!

1,3,4-trimethylheptan-3-ol

!! ☺