Below are two sequences converting methyl cyclohexene to the products shown at the right. Further down are reagents that could be useful in effecting these transformations. Select the appropriate reagent set for each of the steps 1. through 10.

1. \( \text{H}_2\text{O} \)  
2. \( \text{Li} \)  
3. \( \text{H}_2\text{O}_2 \text{NaOH} \)  
4. \( \text{HCl} \)  
5. \( \text{H}_2 \text{Pt} \)  
6. \( \text{Zn(Hg)} \)  
7. \( \text{B}_2\text{H}_6 \)  
8. \( \text{NaBH}_4 \)  
9. \( \text{PCC} \)  
10. \( \text{CH}_3\text{Li} \)