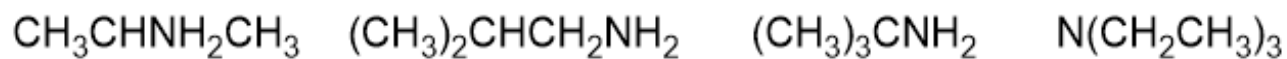
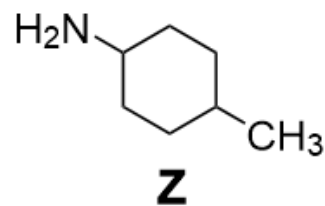
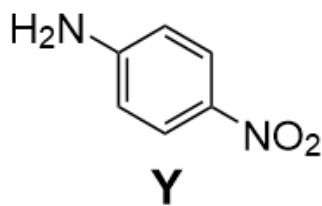
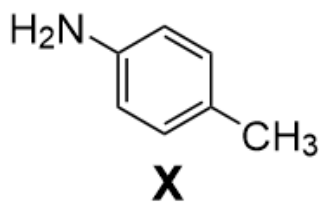




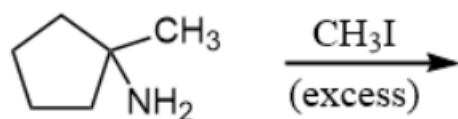
1 Provide both common and IUPAC names for each compound:



2 Which is the strongest base? Which is the weakest base? Explain briefly.

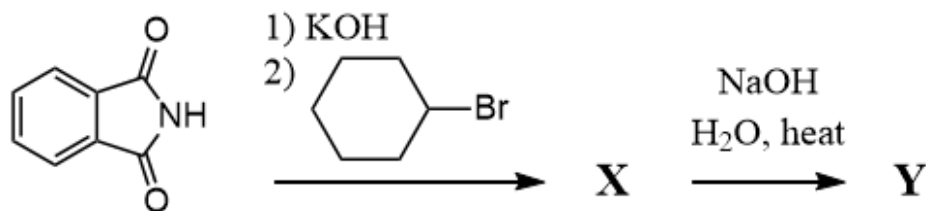


3 Predict the major product.

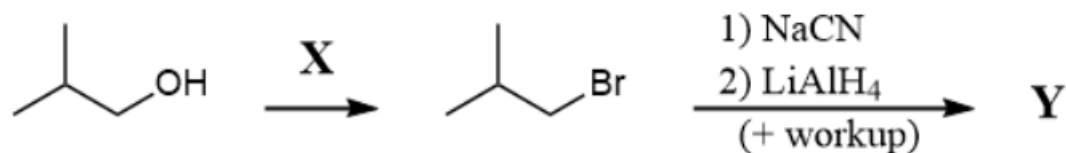


4

Predict the products **X** and **Y** and provide mechanisms for their formation.

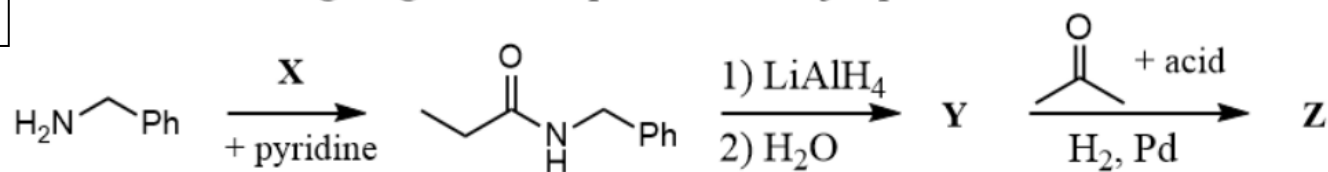


5 Identify the best reagent(s) **X** and the major product **Y**.

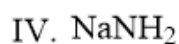
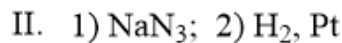
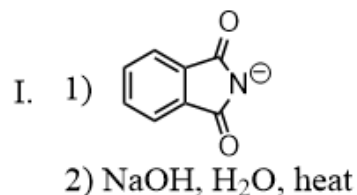
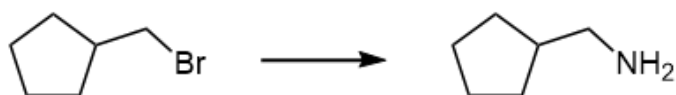


Provide the missing reagent **X** and predict the major products **Y** and **Z**.

6



7 Which of the following reagents are suitable for the given transformation?



8

Of the following reagents, which is BEST for the given transformation?

