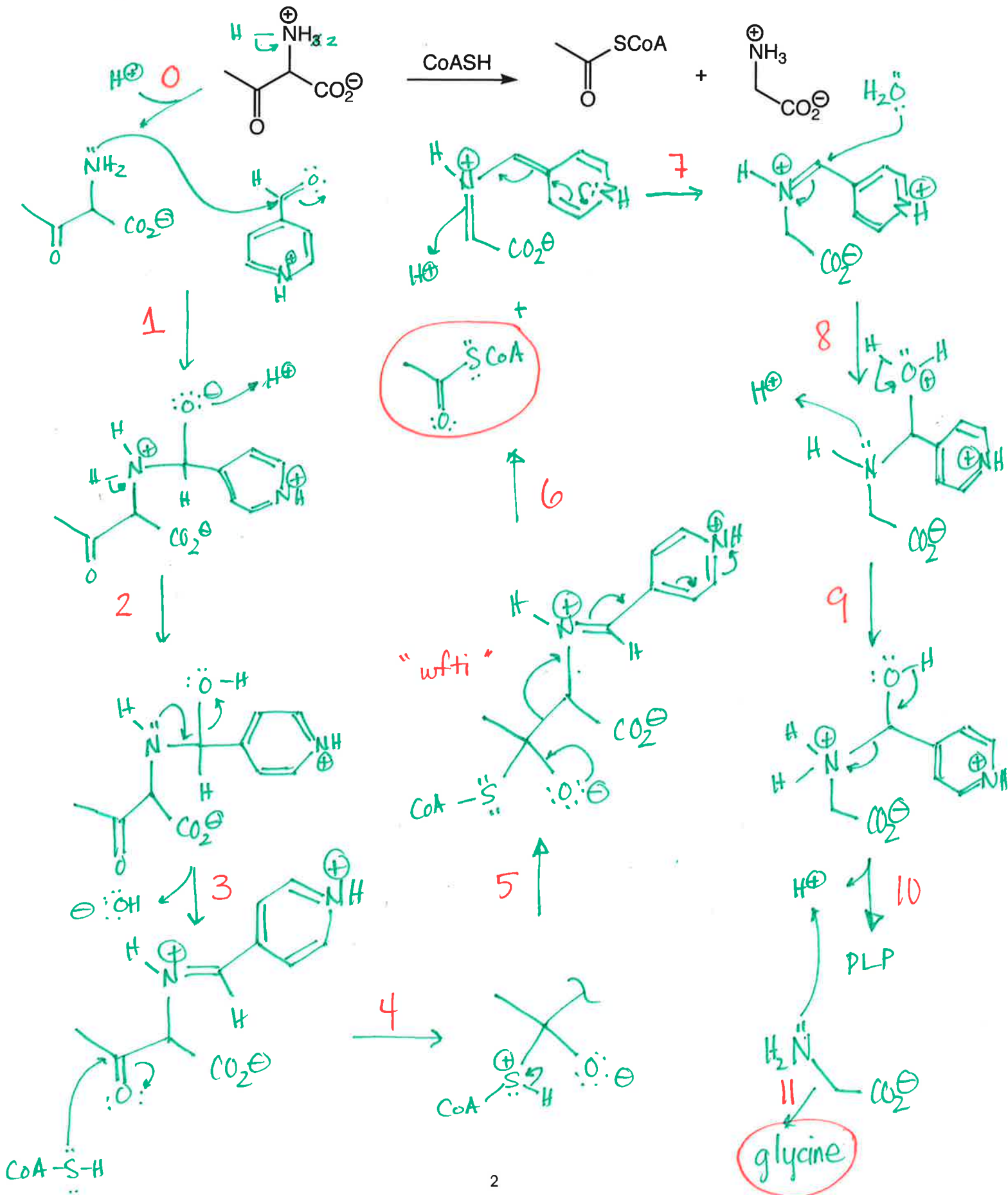
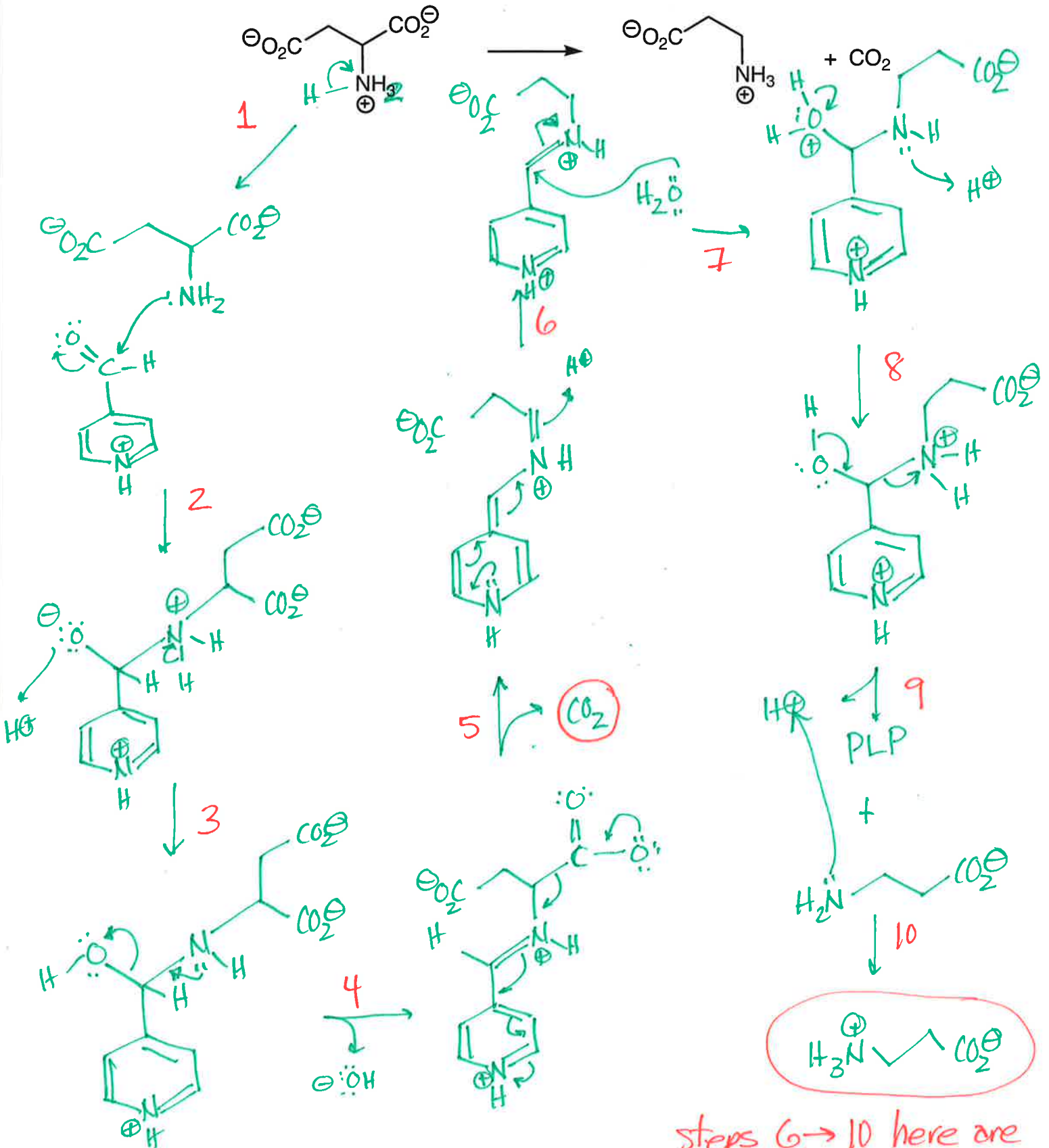


33
 1. (25 points). The following reaction requires PLP.



33
 2. (25 points). The following reaction requires PLP.



steps 1 \rightarrow 4 here are the same as steps 0 \rightarrow 3 on problem 1

steps 6 \rightarrow 10 here are the same as steps 7 \rightarrow 11 on problem 1

3. (50 points). The following problem requires TPP. Start by doing a careful analysis of what's changing as the reaction proceeds. The stereochemistry may provide a bit of a hint.

