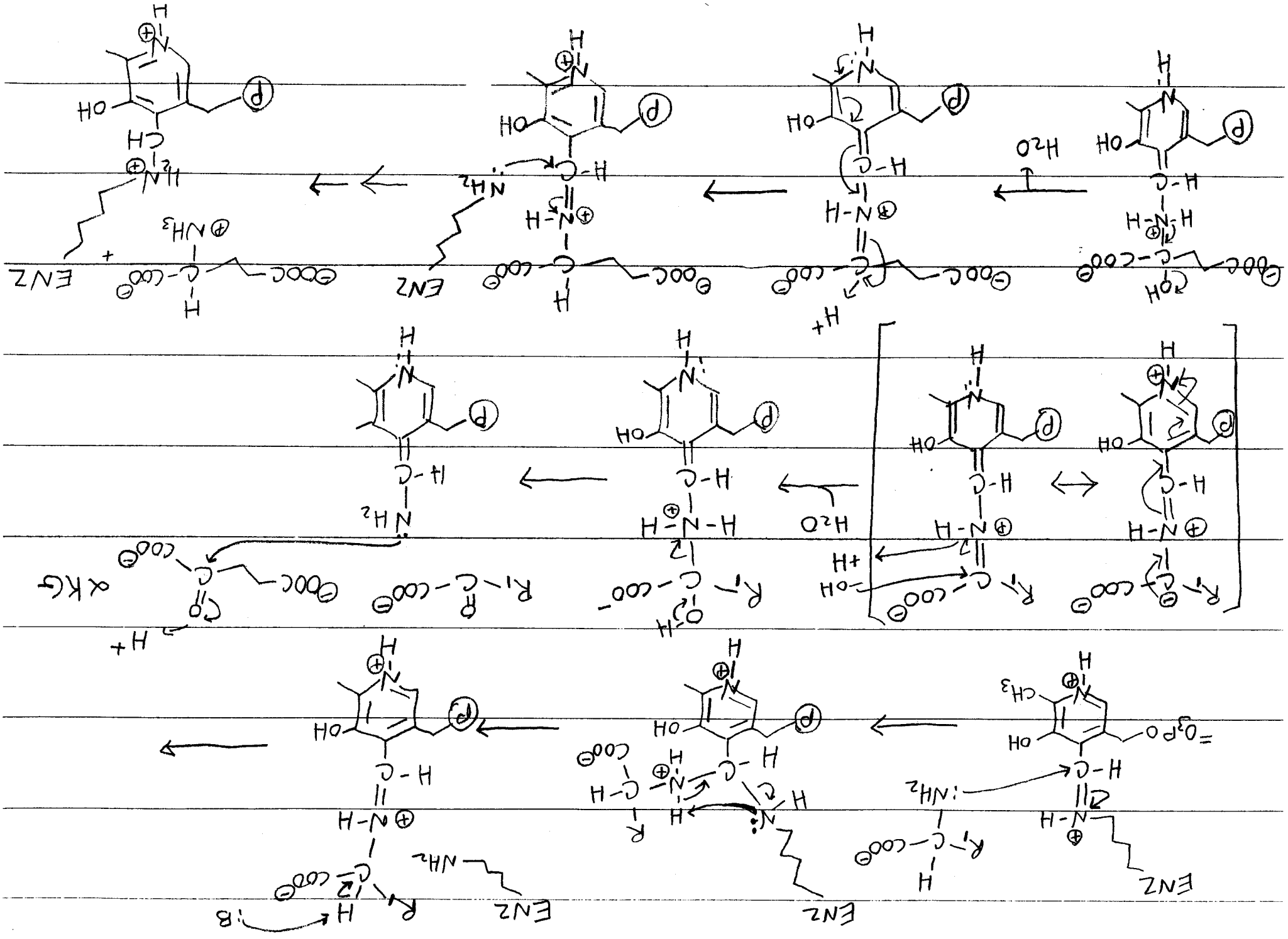
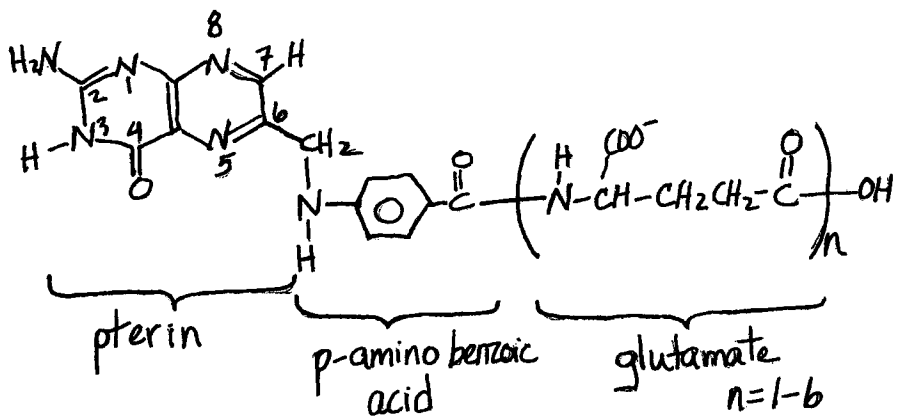


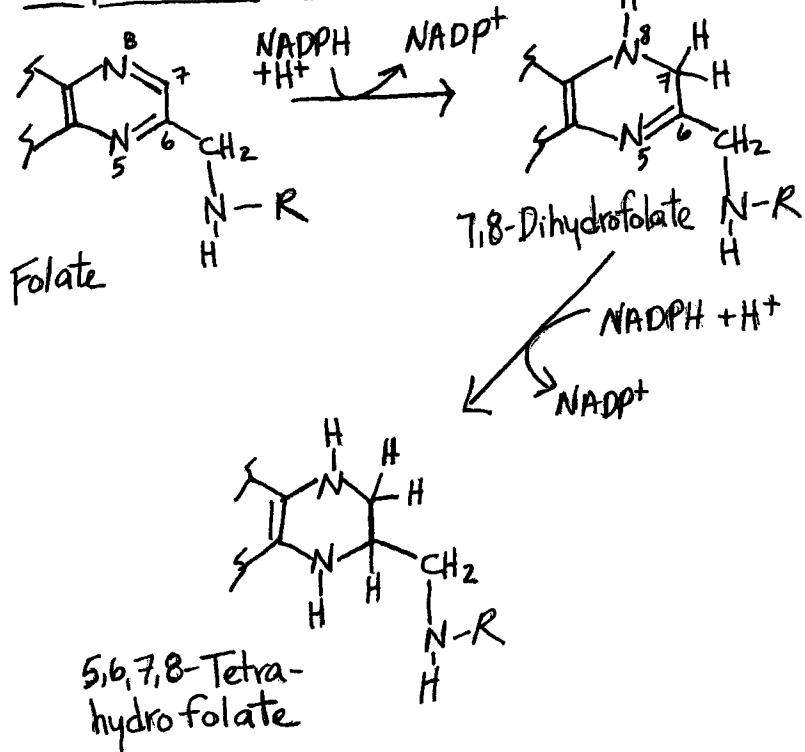
AMINO TRANSFERASE MECHANISM



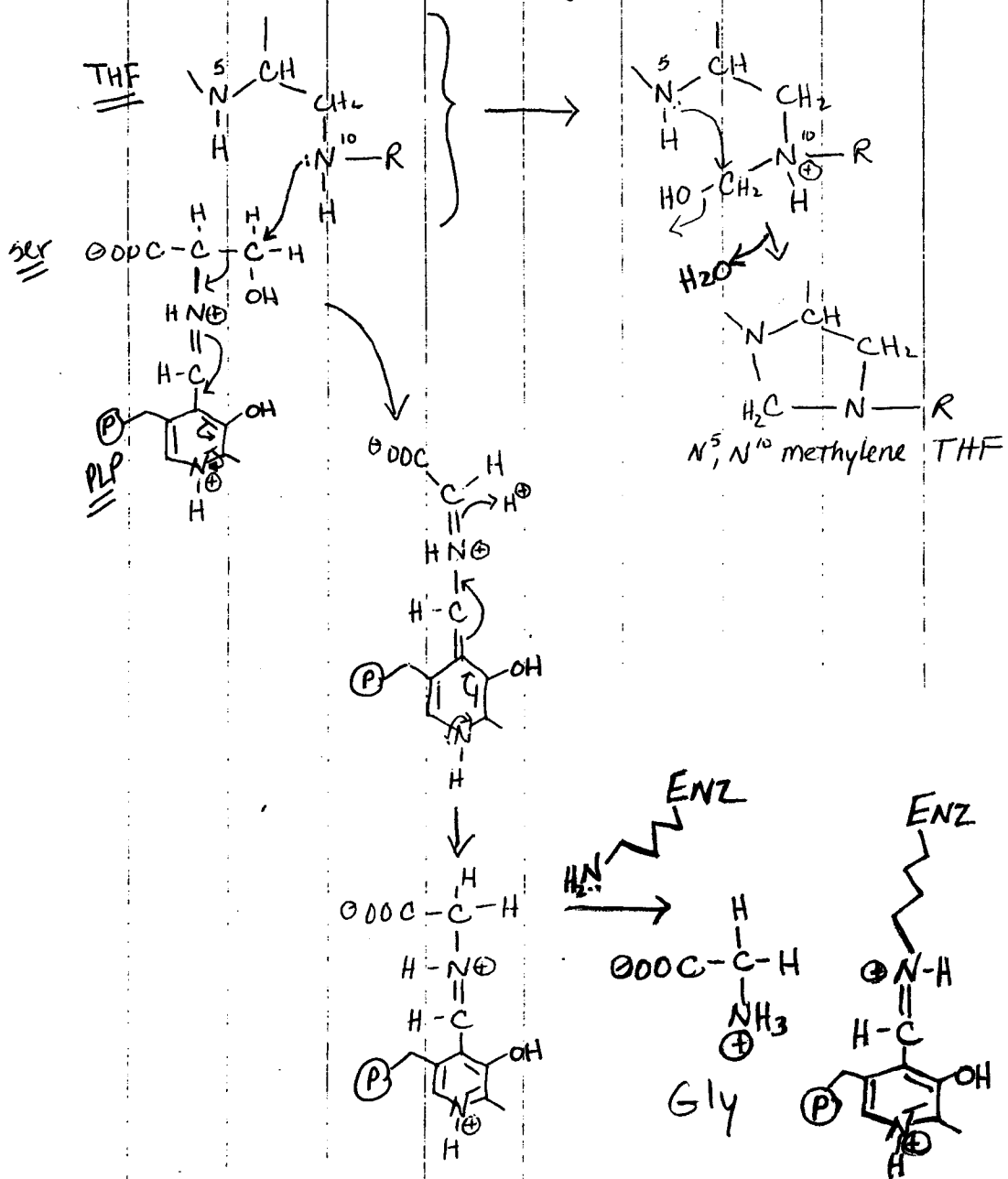
Folic acid



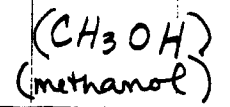
Dihydrofolate Reductase:



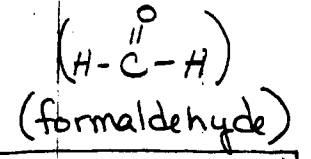
Serine Hydroxymethylase Reaction



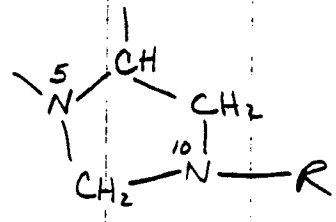
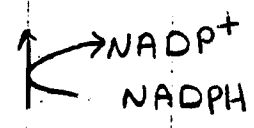
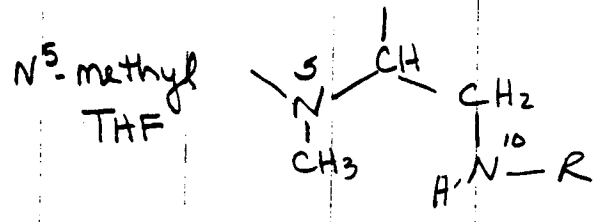
(oxidation state)



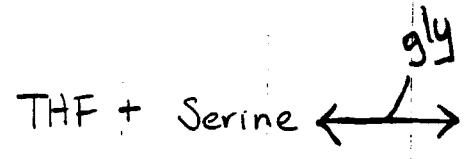
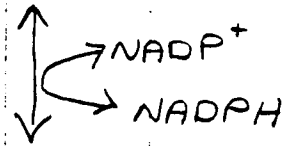
group transferred
= -CH₃



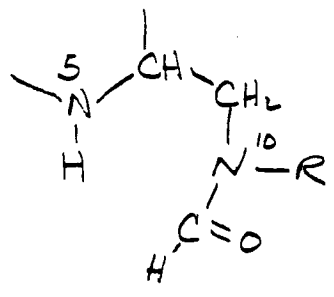
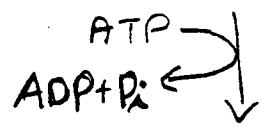
group transferred
= -CH₂OH



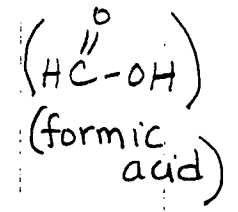
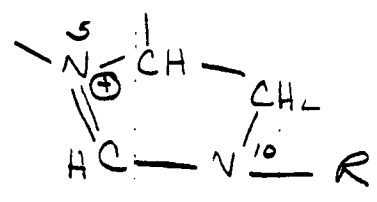
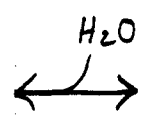
N⁵, N¹⁰-methylene THF



THF + HCOOH

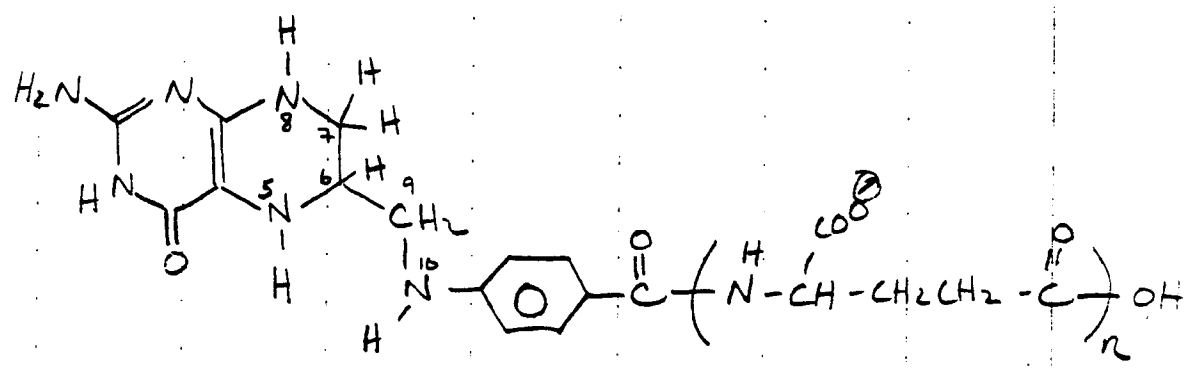


N¹⁰-Formyl THF



N⁵, N¹⁰-methenyl THF

group transferred
= -C(=O)-H



Tetrahydrofolic acid (THF)

Metabolism of Methionine in Mammals

