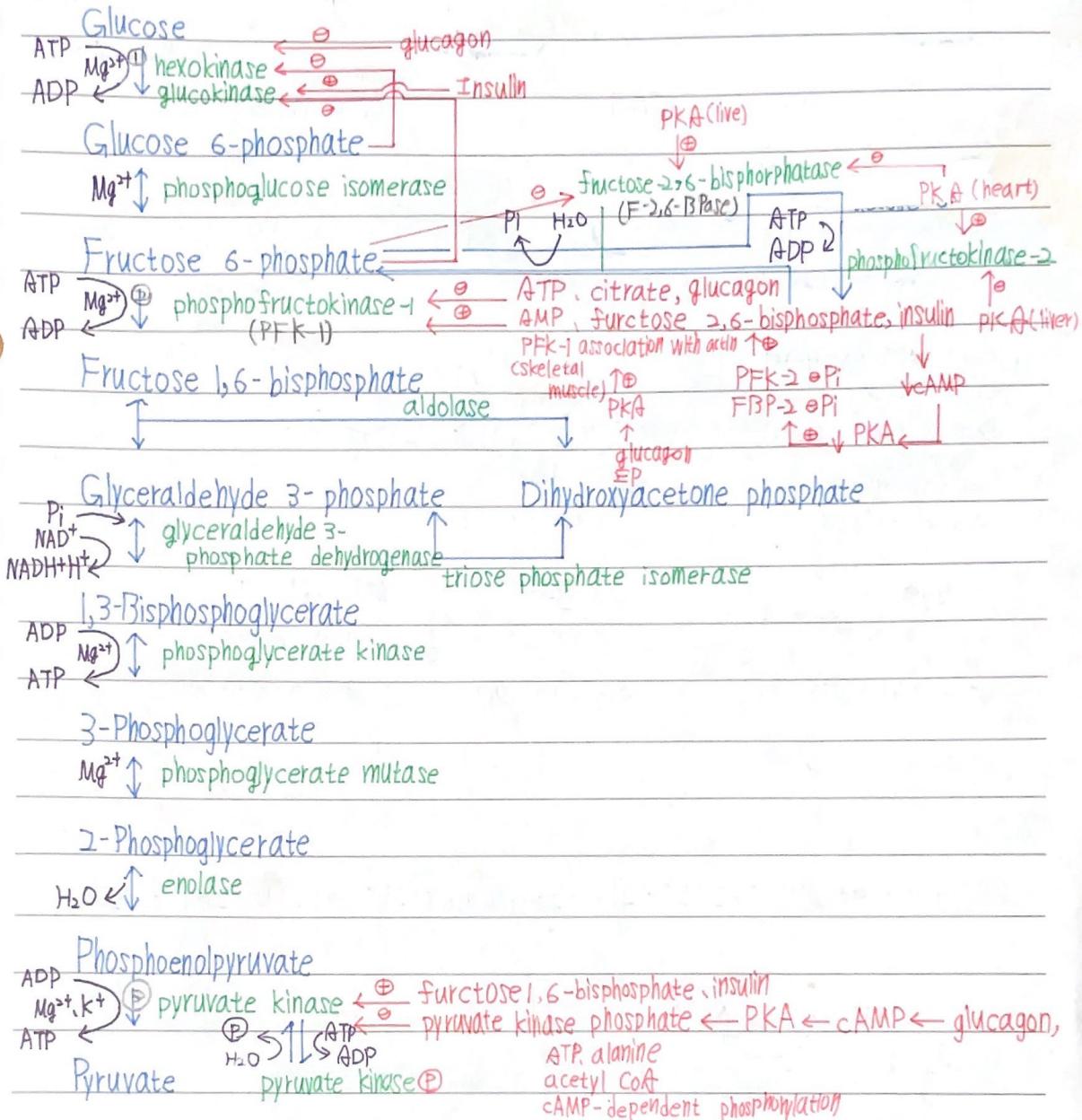
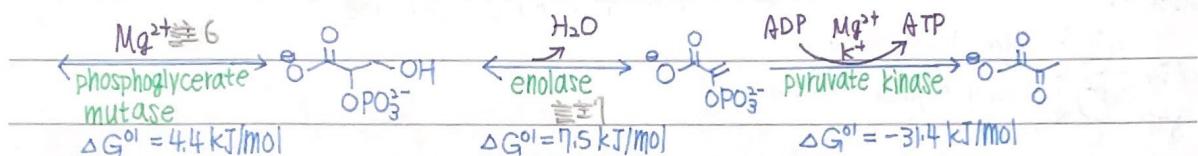
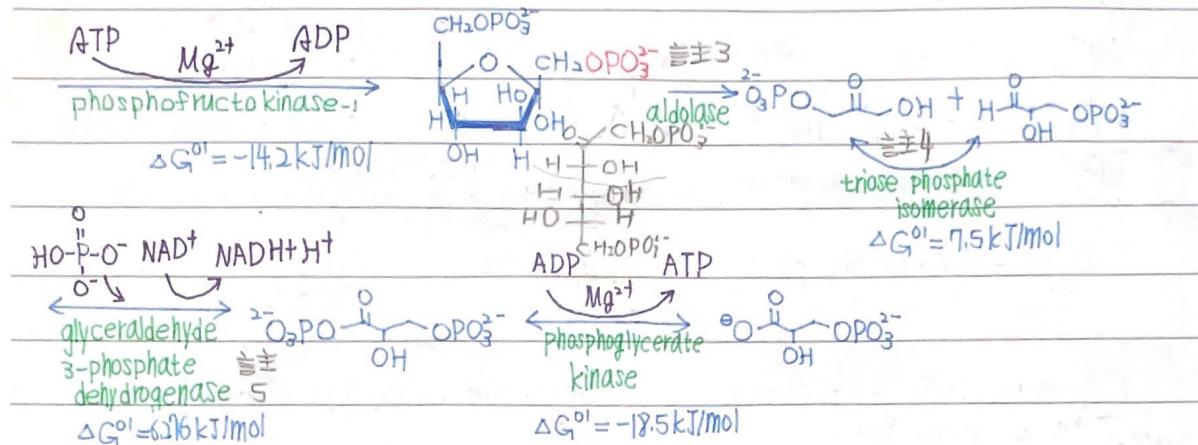
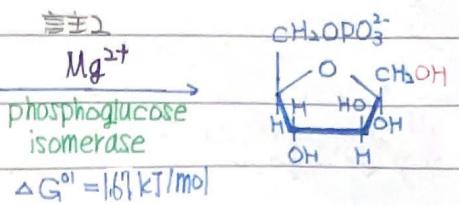
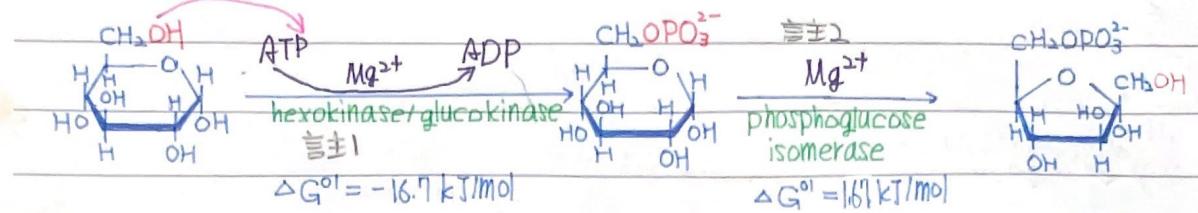


Physiologic Functions of Carbohydrates

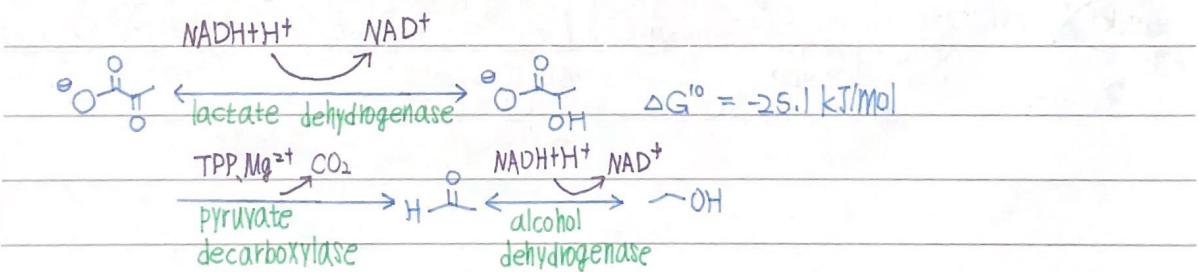
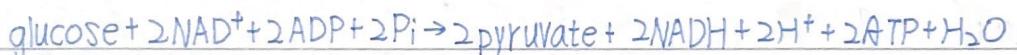
date _____ NO _____

Glycolysis

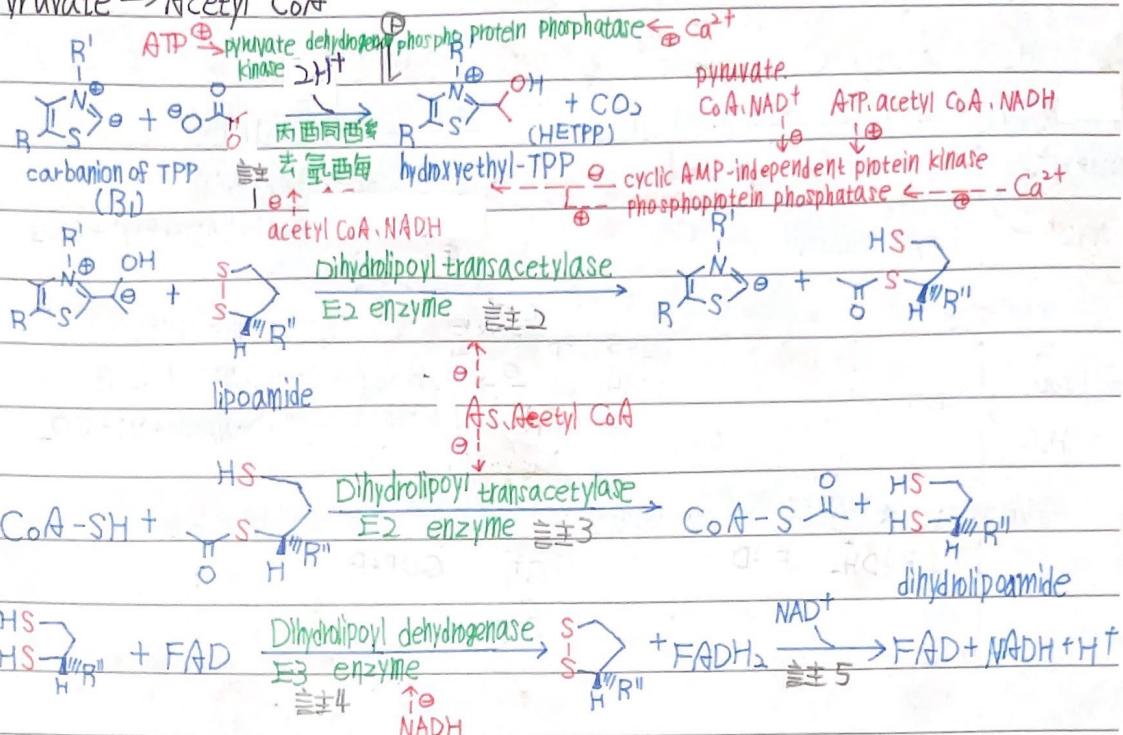




Total:

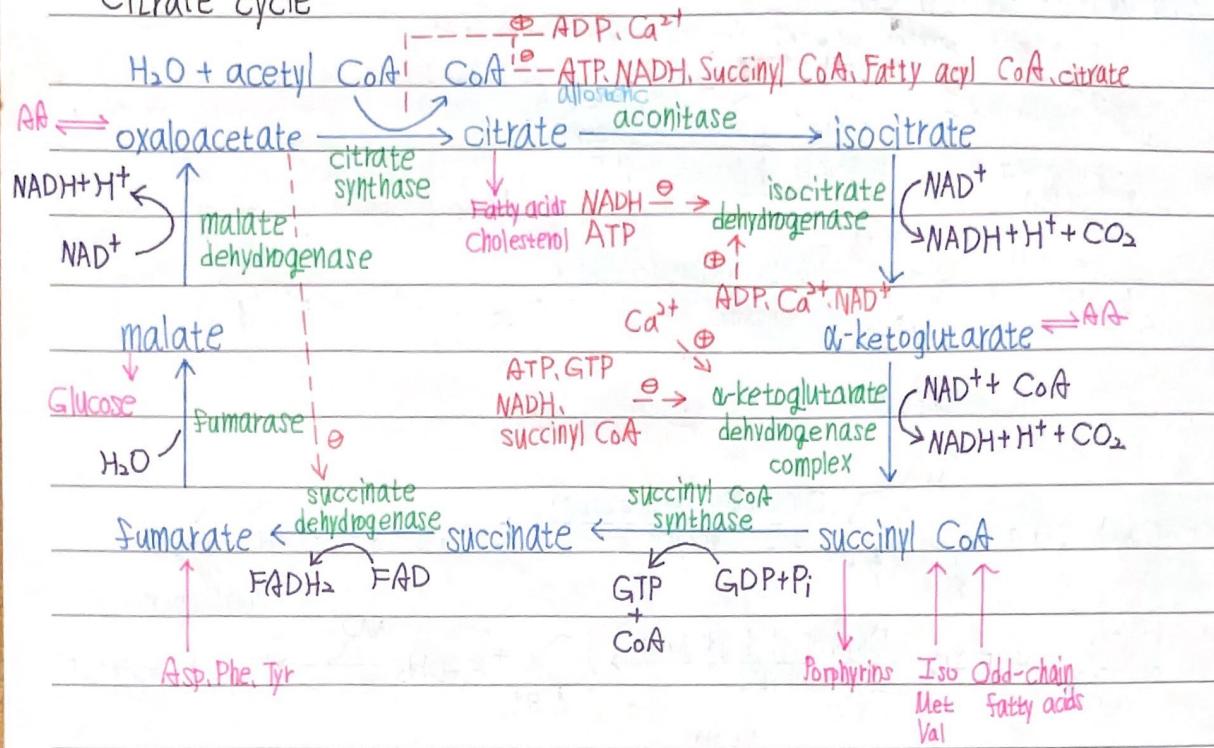


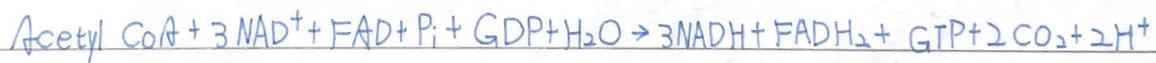
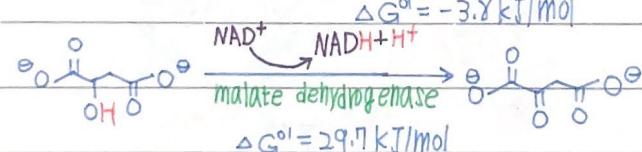
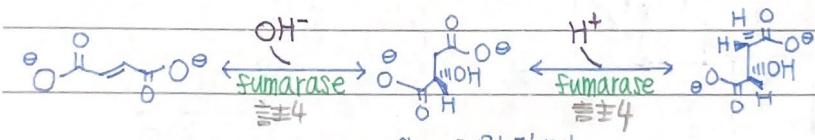
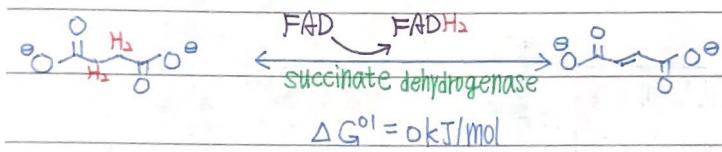
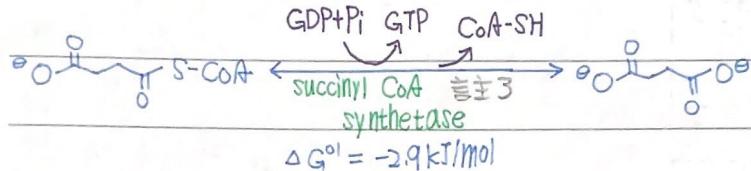
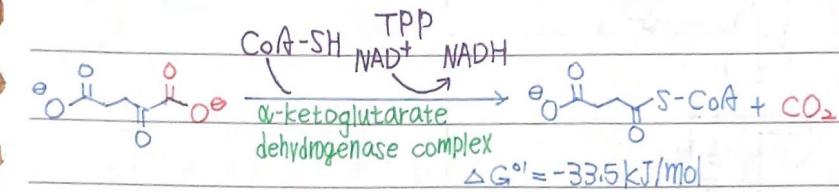
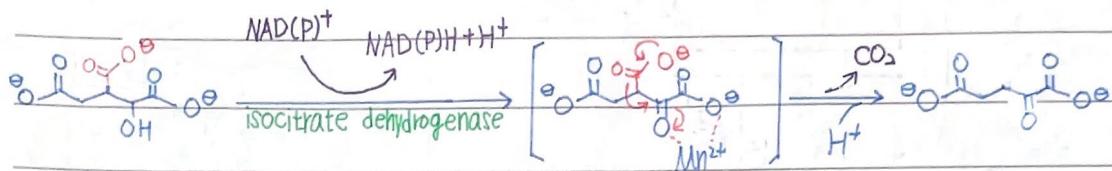
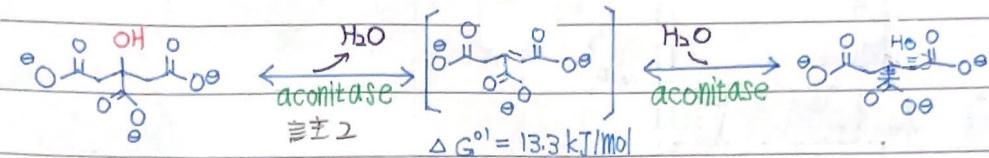
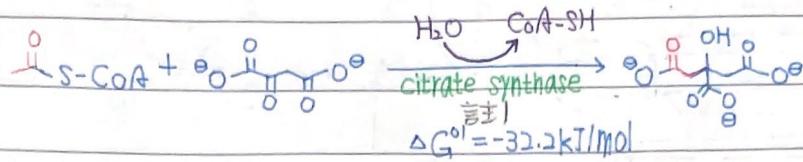
Pyruvate \rightarrow Acetyl CoA

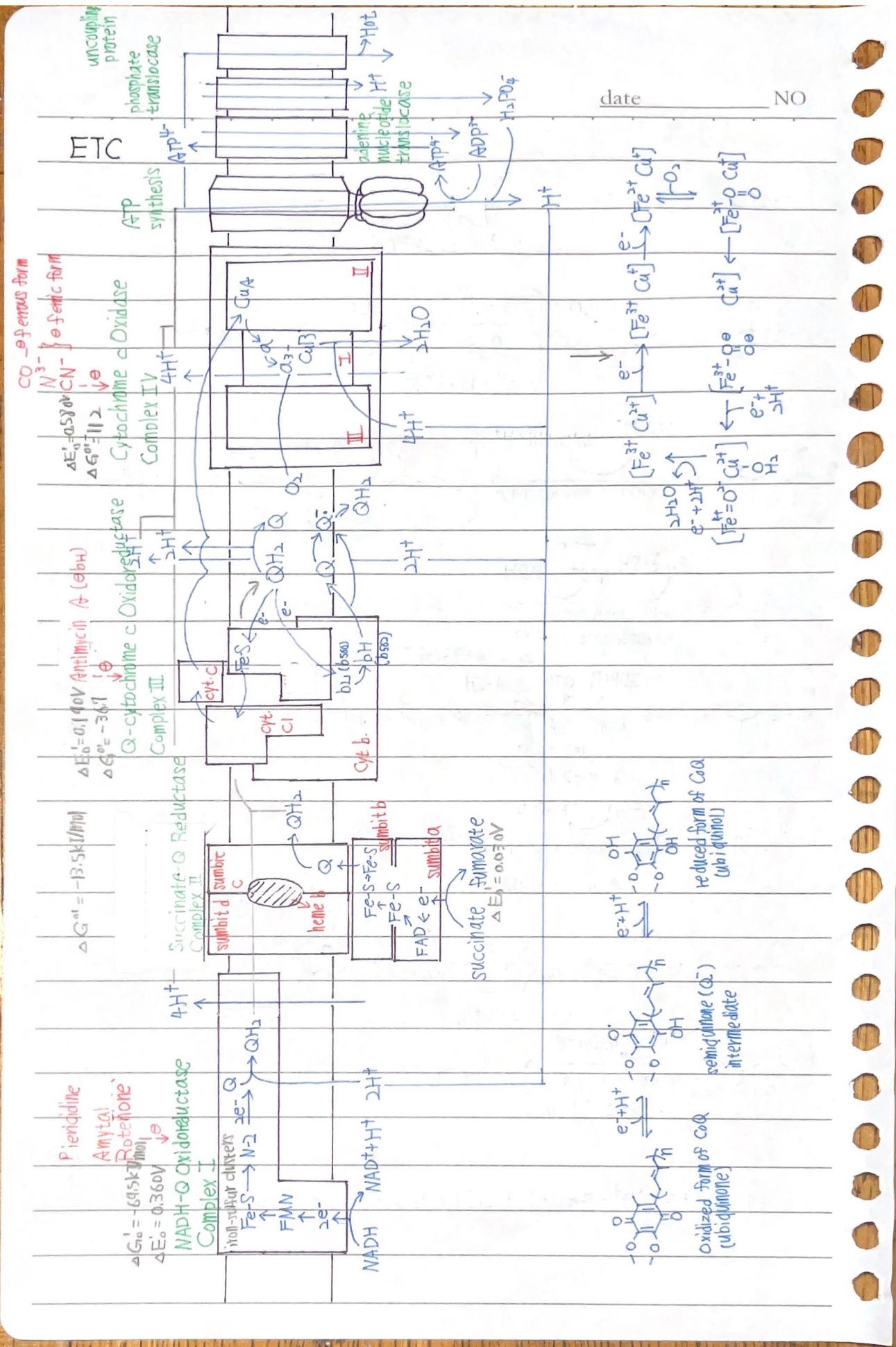


$$\Delta G^\circ = -33.4 \text{ kJ/mol}$$

Citrate cycle





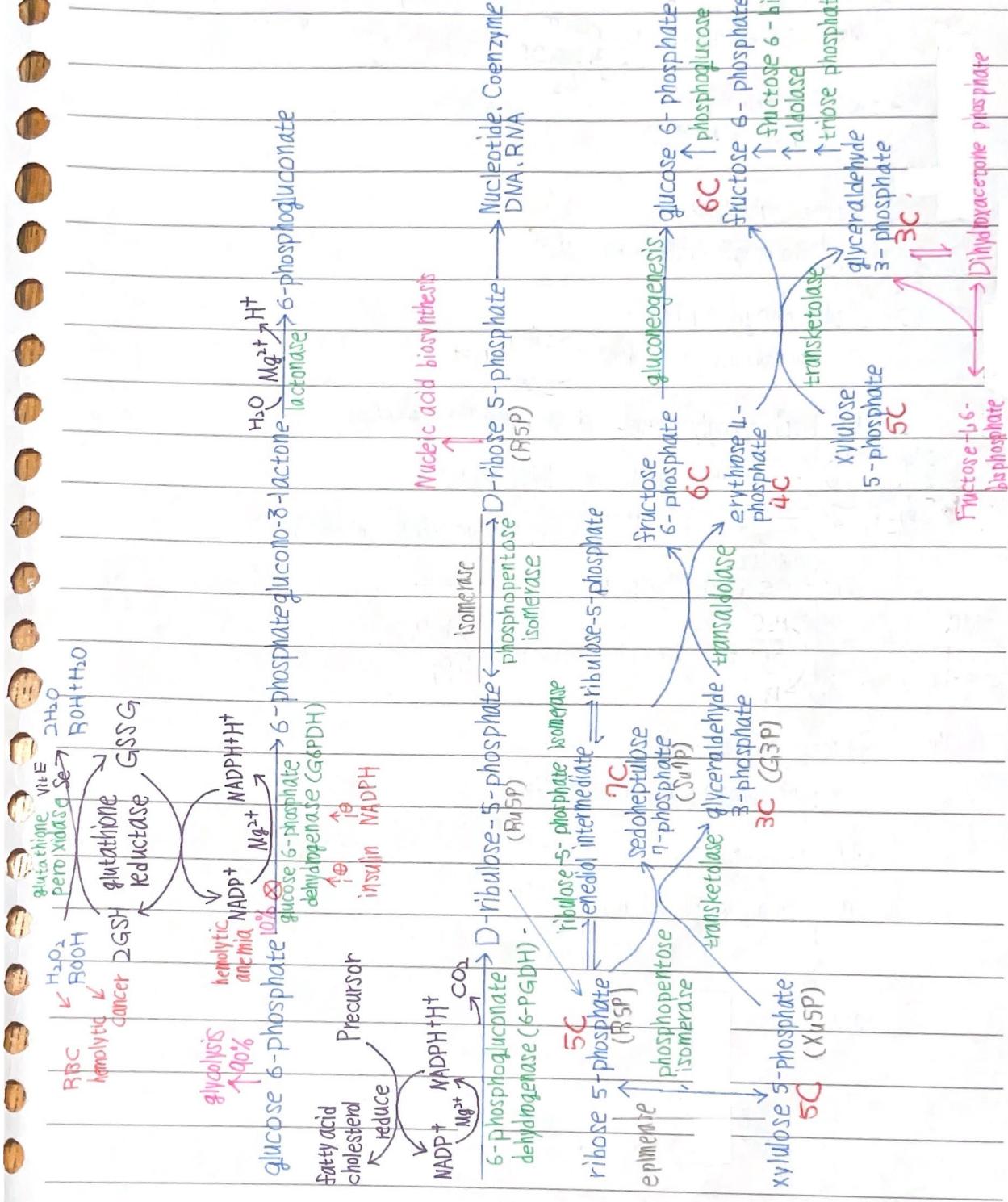


Pentose Phosphate Pathway

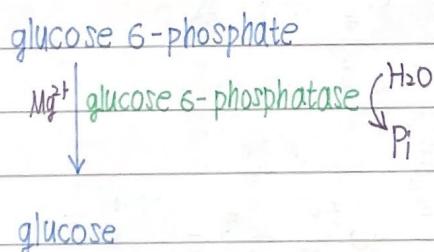
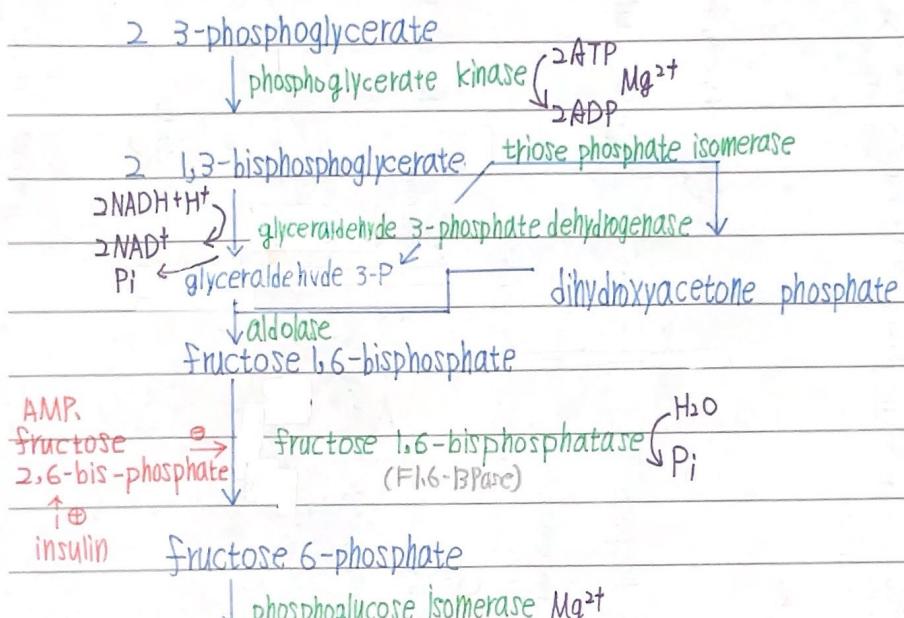
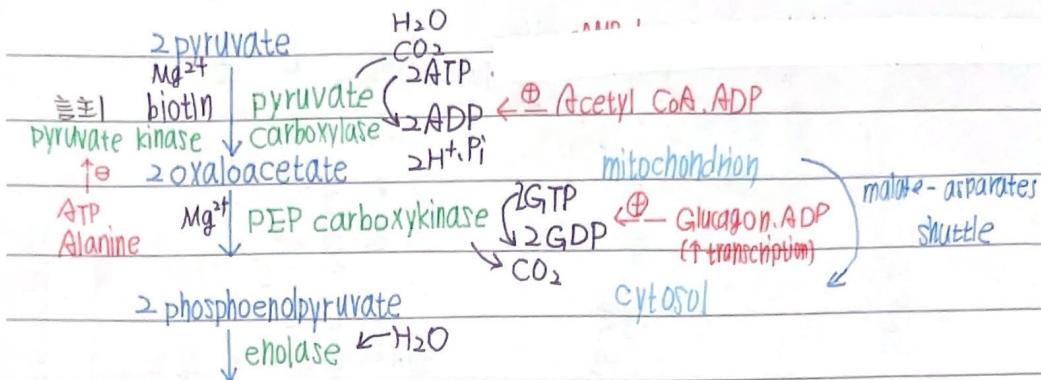
Oxidative phase

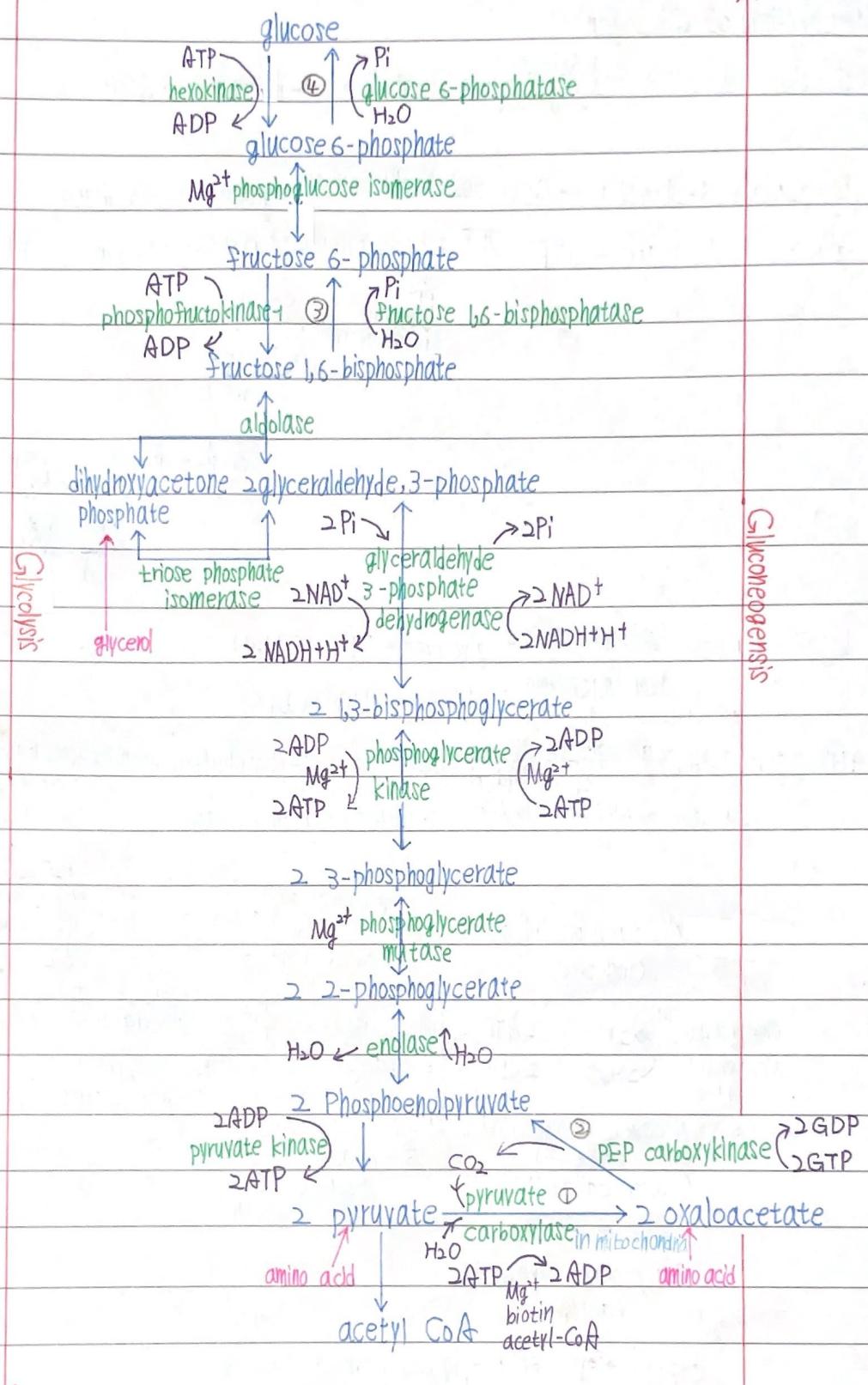
— NO

Non- Oxidative phase

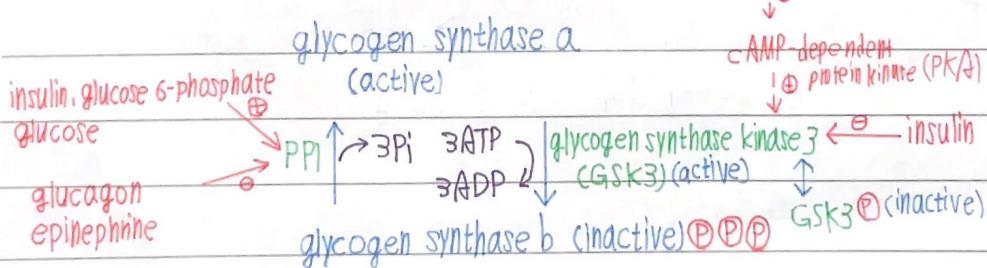
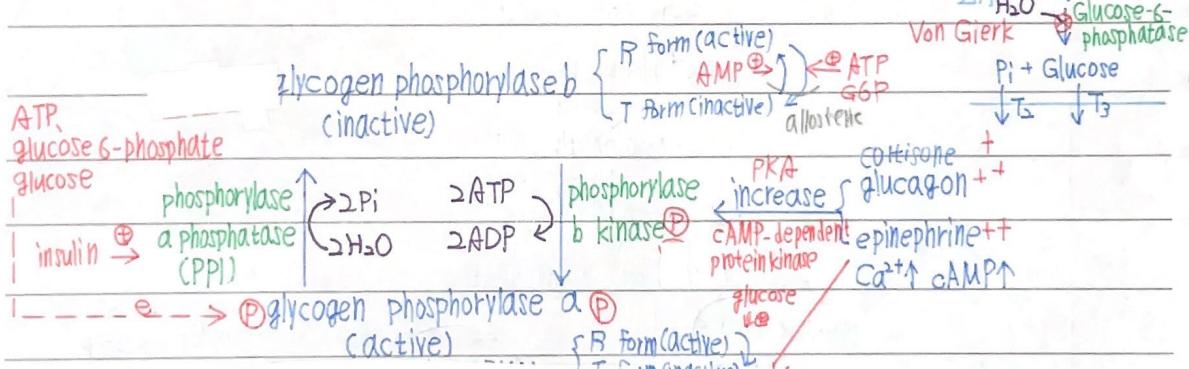
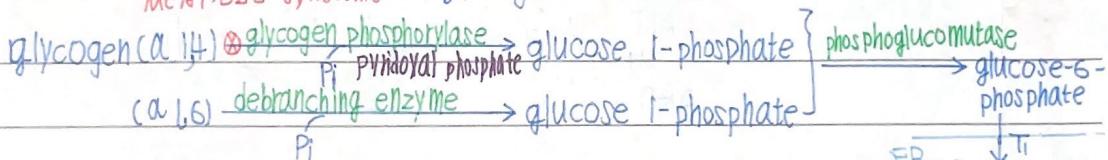
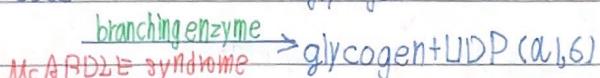
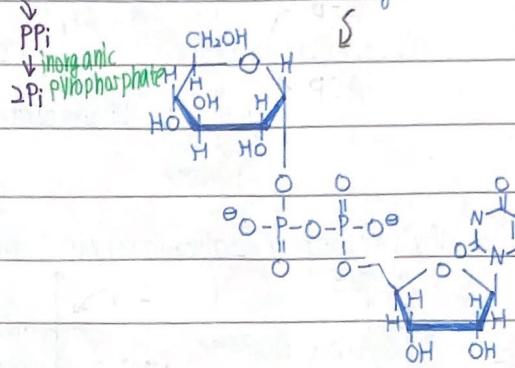
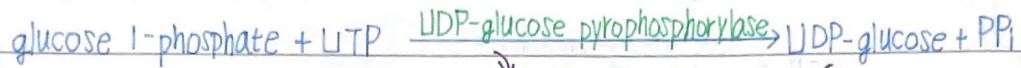
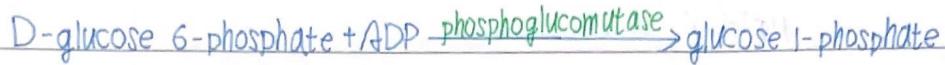
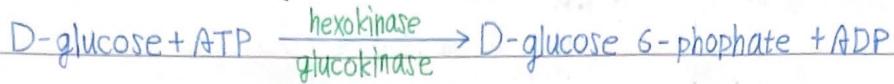


Gluconeogenesis



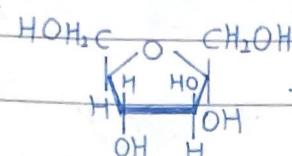


Metabolism of Glycogen

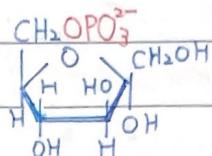


Metabolism of other monosaccharides

Fructose

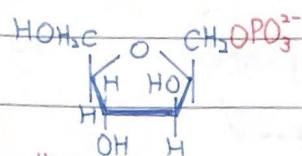


Hexokinase

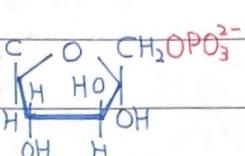


ATP
ADP ↴ Fructokinase
↓ Essential Fractosuria

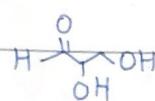
$$\text{ATP} \rightarrow \text{ADP} \quad \downarrow \quad \text{Phosphofructokinase}$$



Heterozygous
Fructose-1,6-bisphosphatase
Deficiency



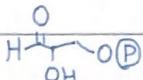
Aldolase A



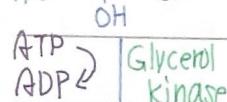
$\text{NADH} + \text{H}^+$ | Alcohol
 NAD^+ | dehydrogenase



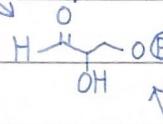
Urease



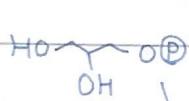
Glycolysis



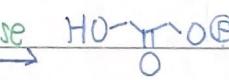
Page 1



Alcohol dehydrogenase



↓
↓
Tri



Phosphoglycides

Galactose

