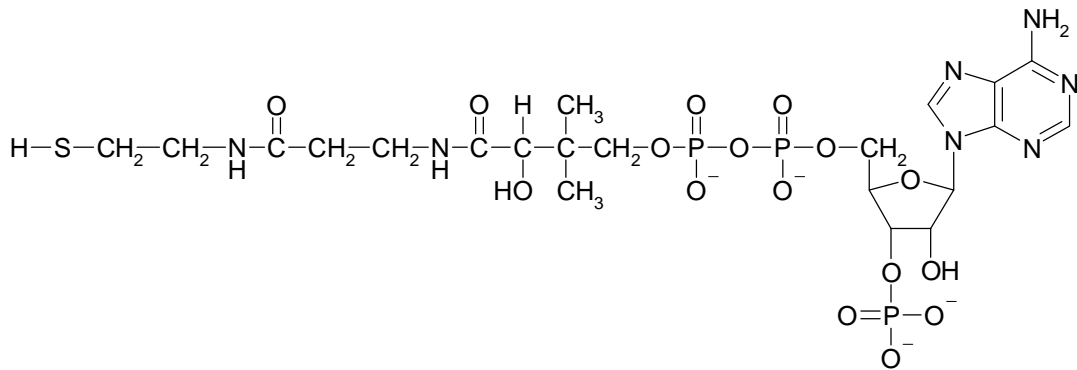
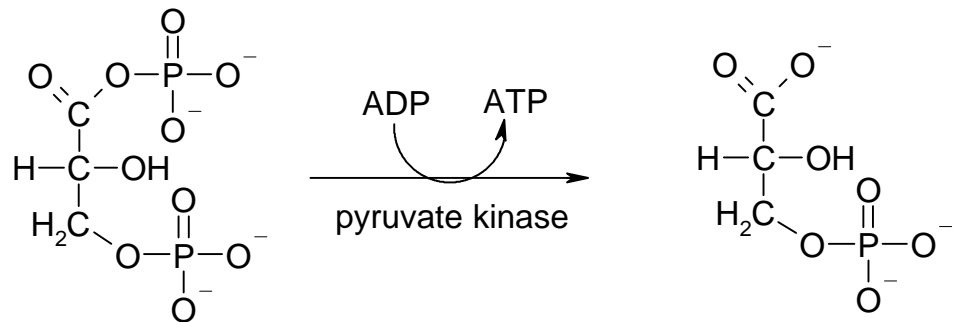


Sample Exam Key I

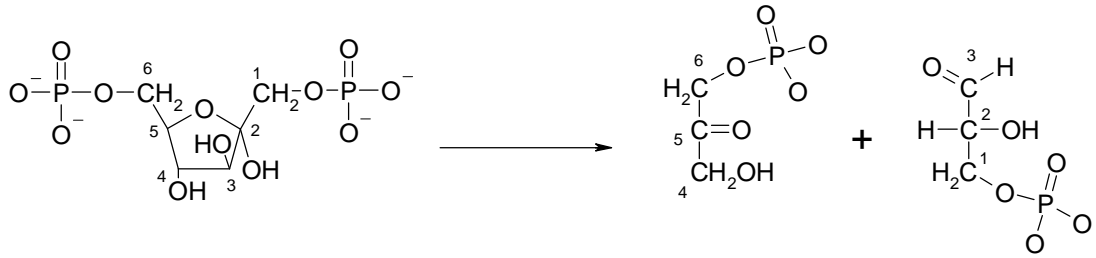
1. -12.2 kJ/mol
2. +76 J/mol
3. pyruvate + H<sup>+</sup> + NADH → lactate + NAD<sup>+</sup>
4. -30.28 kJ/mol
5. ATP synthesis
6. fructose-1,6-bisphosphate
7. phosphoglucomutase
8. hexokinase, phosphofructokinase-1, pyruvate kinase
9. ribose
10. all are required
11. 3, 1, 1
12. fatty acids
13. succinate
14. α-ketoglutarate
15. FAD
- 16.



17. fumarate + FADH<sub>2</sub> → succinate + FAD
18. 2,3,6,7,1,8,4,5
19. K<sub>eq</sub> = 1.0062
- 20.



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