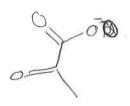
NAME: Key

Fed (Hepatocyte)	Increasing	Decreasing	N/A
Blood [glucose]	X		
Blood [Insulin]	X		
Insulin Receptor Signal	X		
Blood [Glucagon]	0.32	X	
Glucagon Receptor Signal		X	
[cAMP]		X	
Flux through GLUT2	X		
Flux through GLUT4			X
PFK-2/F-2,6-BPase Phosphorylation		X	
PFK-1 activity	Χ		
PFK-2 activity	X		
F-2,6-BPase activity		X	
[F-2,6-BP]	X		
Pyruvate kinase phosphorylation		X	
Pyruvate kinase activity	X		
Flux through glycolysis	X		

1. Draw α -D-glucose.

2. Draw pyruvate.



- 3. How many total (all together) C-C and C-H bonds are present in glucose? 1/2
- 4. How many total (all together) C-C and C-H bonds are present in <u>two</u> pyruvates? /
- 5. What is the numerical difference between your answers for #3 and #4?

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6. How many total redox reactions occur in the pathway of glucose becoming two pyruvates?