Problem Set 30: Amino Acid Metabolism

- 1. Which of the following would you expect to undergo transamination during catabolism?
 - a. Glucose
 - b. Amino acids
 - c. Lactose
 - d. Triglycerides
- 2. Match the name of the process to it's description:
 - a. An 8 step cycle in which two carbons enter as acetyl-CoA and two carbons exit as carbon dioxide.
 - b. A 10 step process in which glucose is broken down into two units of pyruvate.
 - c. The process in which reduced coenzymes are reoxidizes by ultimately passing their electrons to oxygen.
 - d. The process in which the amino group of glutamate is removed as an ammonium ion.
- 3. There are two possible fates for the amino group from amino acid metabolism. What are these two fates?
- 4. What are the possible fates for the carbon skeleton of an amino acid during metabolism?