You may collaborate, use your book, and use your notes. Point values are in parentheses.

1. What would be the net yield of ATP molecules if the following diglyceride were hydrolyzed and the resulting fatty acids (don't worry about the glycerol) were completely metabolized to H₂O and CO₂? What metabolic pathways would be used to in the metabolism of this molecule? Show your work. (10 pts)

Number of ATP:

2.	How many molecules of NADPH are needed to synthesize palmitic acid $CH_3(CH_2)_{14}COOH$? Briefly explain your answer. (3 pts)
3	Why can't β oxidation proceed backwards to produce triacylglycerols? (3 pts)
<i>3</i> .	why can't p oxidation proceed backwards to produce triacytgiyeerois. (5 pts)
4.	Write the equation for the transamination reaction that accurs between valine and pyruvate. (4 pts)