Name: _____ Quiz 19

For the complete oxidation of the above acyl-CoA:

- 1. How many round of β -oxidation will occur?
- 2. How many rounds of the citric acid cycle will occur?
- 3. How many CO₂ will be produced?
 - a. What enzymes catalyze the steps that will release CO₂
- 4. How many NADH will be produced?
 - a. What enzymes catalyze the steps that produce NADH?
- 5. How many FADH₂ will be produced?
 - a. What enzymes catalyze the steps that produce FADH₂?
- 6. How many GTP will be produced?
 - a. What enzymes catalyze the steps that produce GTP?

If all the resulting NADH and FADH₂ are processed through the Electron Transport Chain and ATP synthase:

- 7. What magnitude of proton difference across the inner mitochondrial membrane will be produced?
- 8. How many O₂ will be used?
- 9. How many ATP will be produced?