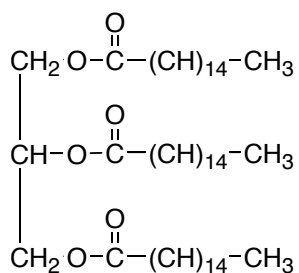


# Chem 352, Fundamentals of Biochemistry

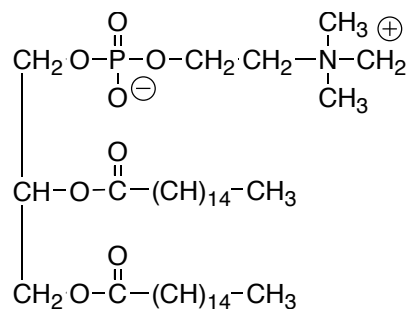
## Lecture 6 – Supplemental Questions

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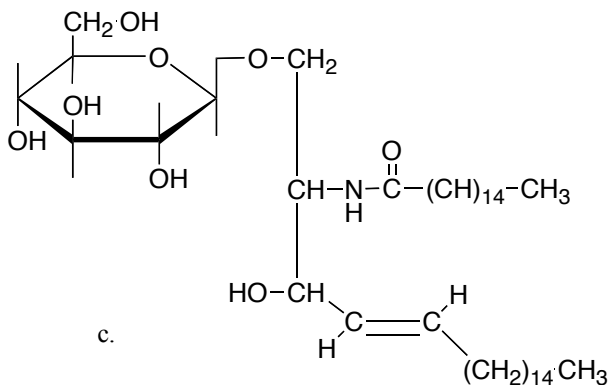
1. Based on their structures, classify each of the following lipids and describe their function:



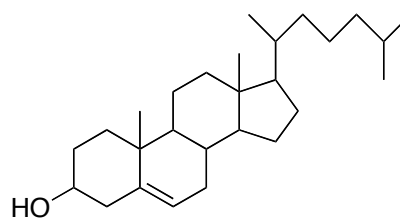
a.



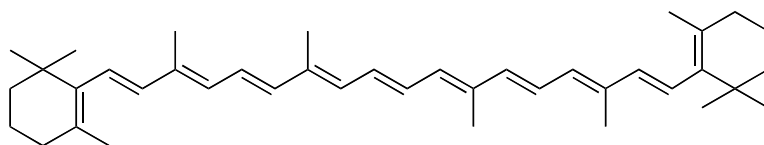
b.



c.



d.



e.

a. Classification \_\_\_\_\_ Function:

b. Classification \_\_\_\_\_ Function:

c. Classification \_\_\_\_\_ Function:

d. Classification \_\_\_\_\_ Function:

e. Classification \_\_\_\_\_ Function:



5. If the  $pH$  of the intermembrane space in a mitochondrion is 6.5 compared to the matrix, which is 7.4, and the membrane potential of the inner membrane is 60 mV ( $\Psi_{\text{out}} - \Psi_{\text{in}}$ ), What is the change in the free energy (in kJ) for a mole of protons moving through the ATP Synthase complex at 37°C?