1. Please take 12 minutes to complete the following questions.

a. Identify all functional groups in the following molecule. Classify all amines, alcohols, and halides as 1°, 2°, or 3°. 8 pts

b. Write complete IUPAC names for each of the following compounds. 8 points

1. 

2. 

4-(methylthyl)-1-hepten-6-one
4-(methylthyl)-1-hepten-6-yn