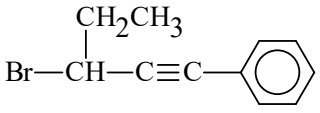
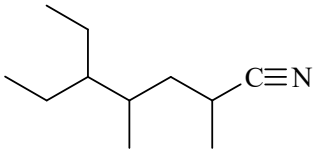
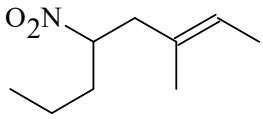
Chem 10123, Quiz 9 Name: _____
(Please Print)
April 15, 2020

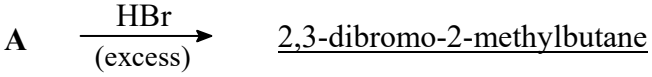
1. Consider the three organic compounds shown below.
   (a) (6 points) Write the ***systematic name*** of each compound below its structure.
   (b) (3 points) Circle any carbon atoms which are ***asymmetric (chiral) centers*** in these structures.







2. (5 points) Hydrocarbon **A** reacts with ***excess*** HBr as follows. Draw complete structural formulas for both reactant **A** and the underlined product.



3 (6 points) Hydrocarbon **B** undergoes ***aromatic substitution*** with a certain chloroalkane (in the presence of $AlCl_3$ as a catalyst) to produce the hydrocarbon product **C**. Draw complete structural formulas for reactant **B** and the underlined chloroalkane.