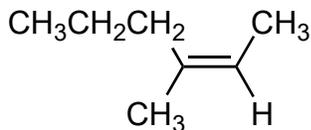


2A) (10 pts) Name the following compounds according to the IUPAC rules. Be sure to indicate stereochemistry, when appropriate. **You must show your work for full credit.**

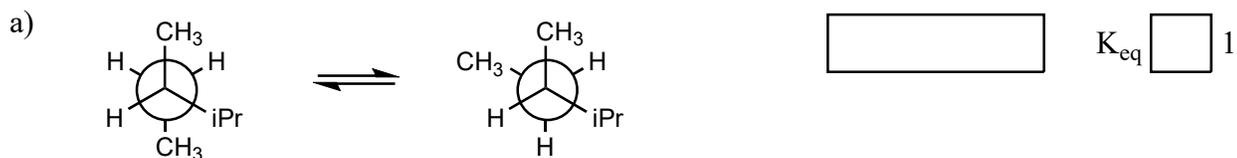


Draw 6-(2-methylpropyl)-4-decyne.

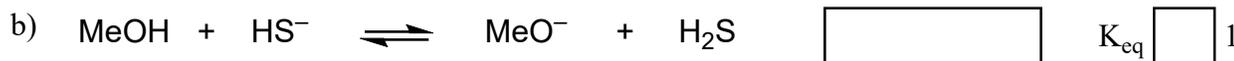
2B) (4 pts) Draw a complete Lewis structure for the following (show all bonds and lone pairs).



2C) (10 pts) In the box provided for each equilibrium, indicate which direction (**forward**, **reverse** or **neither**) is favored and briefly explain why. Also, indicate whether K_{eq} is $<$, $=$, or $>$ **1** for each reaction.



Why?



Why?