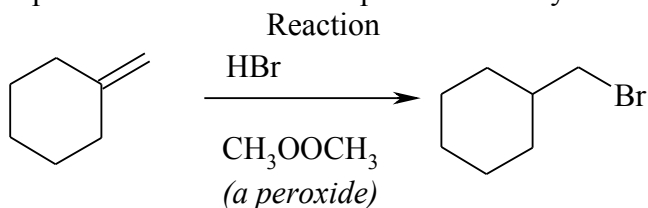


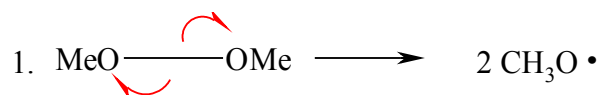
Name \_\_\_\_\_

Arrow Pushing Lab  
Due Nov 17<sup>th</sup>

**Radical Reactions.** Draw a mechanism for the addition of HBr to an alkene with peroxides. Radical reactions have movement of single electrons. The movement of a single electron is shown with a half arrow. Show the two initiation steps, two propagation steps and three termination steps. Show the movement of electrons for all steps. The first initiation step is shown for you.



Initiation steps



2.

Propagation

Termination

Polar Reactions.

The following alkene is not a major product under these conditions. Write a mechanism to show how the alkene is formed. The mechanism goes through a carbocation and a 1,2-hydride shift. Electrons move in pairs in this mechanism and so show the movement of pairs of electrons with a regular curved arrow.

