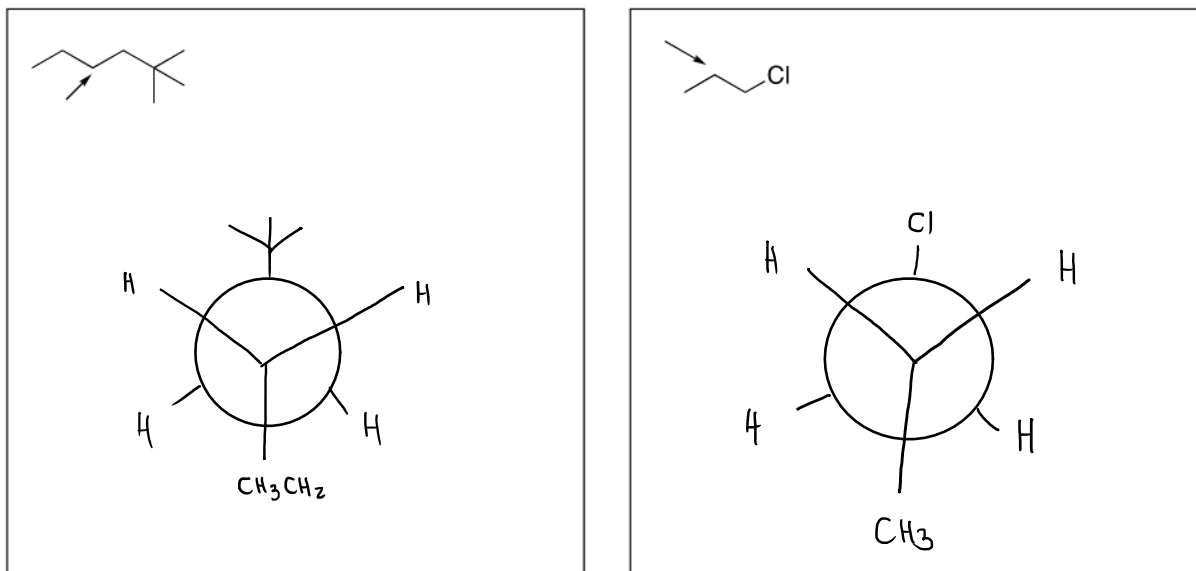


3. Draw the lowest energy conformer of the following compounds using a Newman Projection (looking down the indicated bond). (4 points)



4. Draw a qualitative potential energy surface for the barrier to rotation looking down the indicated bond of the following compound. Be sure to fill in the Newman projections. (5 points)

