

SUGGESTED

ANSWERS

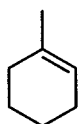
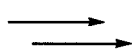
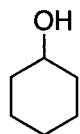
NAME

SIGNATURE

Multistep Synthesis Problems

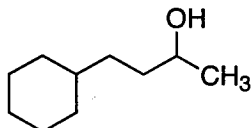
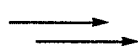
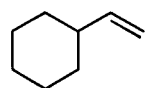
Provide reasonable reaction sequences for the following transformations. More than one step will be required. You can use any needed organic or inorganic reagents. Count the carbons carefully!

1)



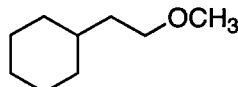
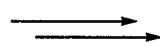
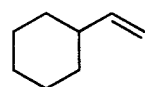
1) PCC
2) MeMgBr
3) conc H₂SO₄

2)



1) HBr, H₂O₂
2) Mg / THF, then
CH₃CHO

3)



1) BH₃ / THF, then
H₂O₂, OH⁻

Other correct answers are possible

2) NaH, CH₃I