

SUGGESTED

ANSWERS

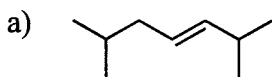
NAME

SIGNATURE

Alkenes

- 1) Provide IUPAC names for the following alkenes. Be sure to include E/Z descriptors if needed. (2 points)

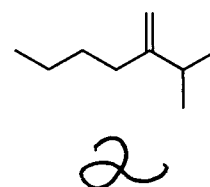
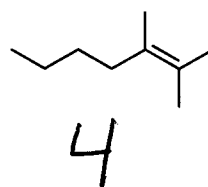
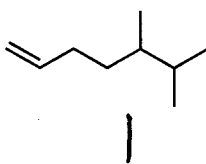
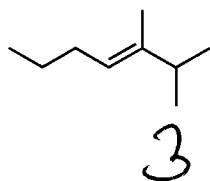
(E)-2,6-dimethyl-3-heptene



(2)-5-ethyl-6,6-dimethyl-4-nonene

b)

- 2) List the following alkenes in order of *increasing* stability (most stable last) and state whether each is mono-, di-, tri-, or tetrasubstituted. (4 points)



- 3) Show the mechanisms for the following E2 reactions. Using your mechanisms, explain the regioselectivity of each reaction. (4 points)

