

Q: Why does hamburger have lower energy than steak?
A: Because it's in the ground state.

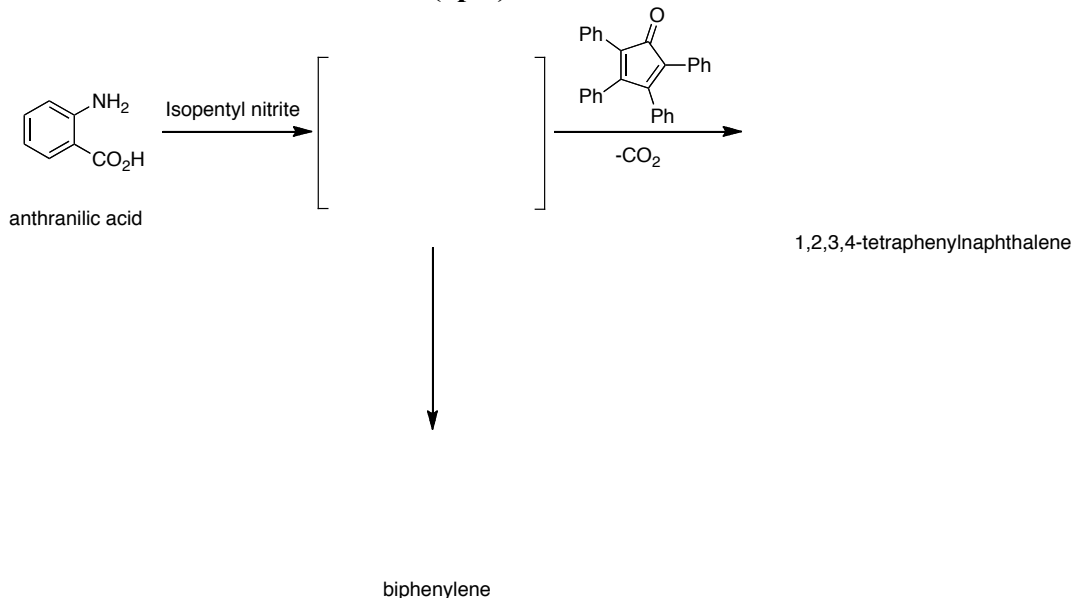
NAME: _____

TA: Robert

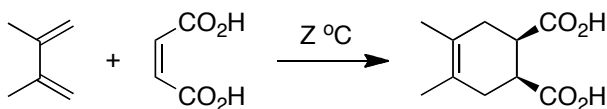
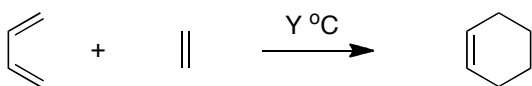
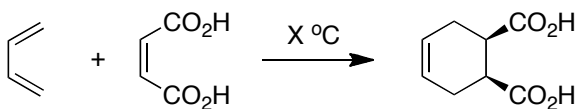
Section: 1E

Quiz #5

1. Complete the reaction scheme for today's experiment. (6pts) What is the intermediate structure called? (2pts)



2. Why are we using the quartz cuvet and not a plastic/glass cuvet today? (2pts)
3. Why shouldn't you inhale isopentyl nitrite? (2pts)
4. Based on your knowledge of dienes and dienophiles, rank the following reactions in order of temperature needed to induce a reaction. (3 = lowest temp, 1 = highest temp). (3pts) Explain your reasoning. (4pts)



5. If a student observes an absorbance of 0.754 a.u. at 450 nm, and the concentration of the sample is 3.0×10^{-4} M, what is the molar extinction coefficient at that wavelength? (1pt)