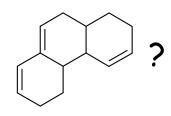
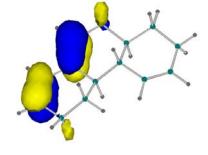
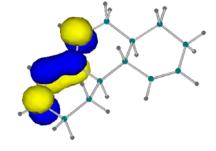
Which is the HOMO of



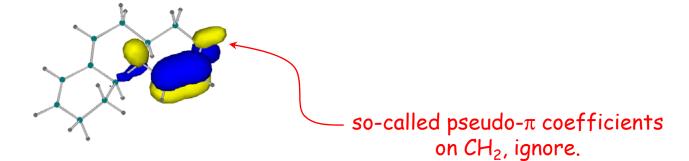




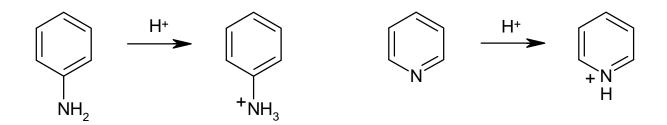
В.



C

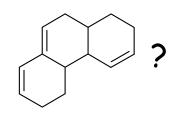


For which of these bases can you use UV-Vis spectroscopy to determine the pK_a ?

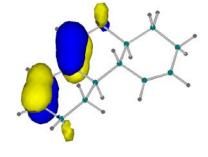


- A. For both. Protonation is protonation.
- B. For aniline. Conjugation changes upon protonation.
- C. For pyridine. Conjugation changes upon protonation.
- D. For neither. The bases do not absorb in the UV-Vis region.

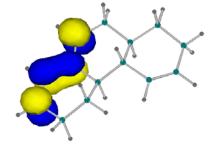
Which is the HOMO of



A



В.

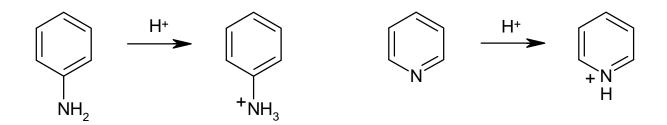


C.



so-called pseudo- π coefficients on CH_2 , ignore.

For which of these bases can you use UV-Vis spectroscopy to determine the pK_a ?



- A. For both. Protonation is protonation.
- B. For aniline. Conjugation changes upon protonation.
- C. For pyridine. Conjugation changes upon protonation.
- D. For neither. The bases do not absorb in the UV-Vis region.
 - B. The pyridine lone pair is σ -type, perpendicular to the π -system. Its π -system is not affected.