

Resonance Structures

Solutions to Practice Quiz

(c) Leah4Sci

Resonance Quiz + tutorial videos

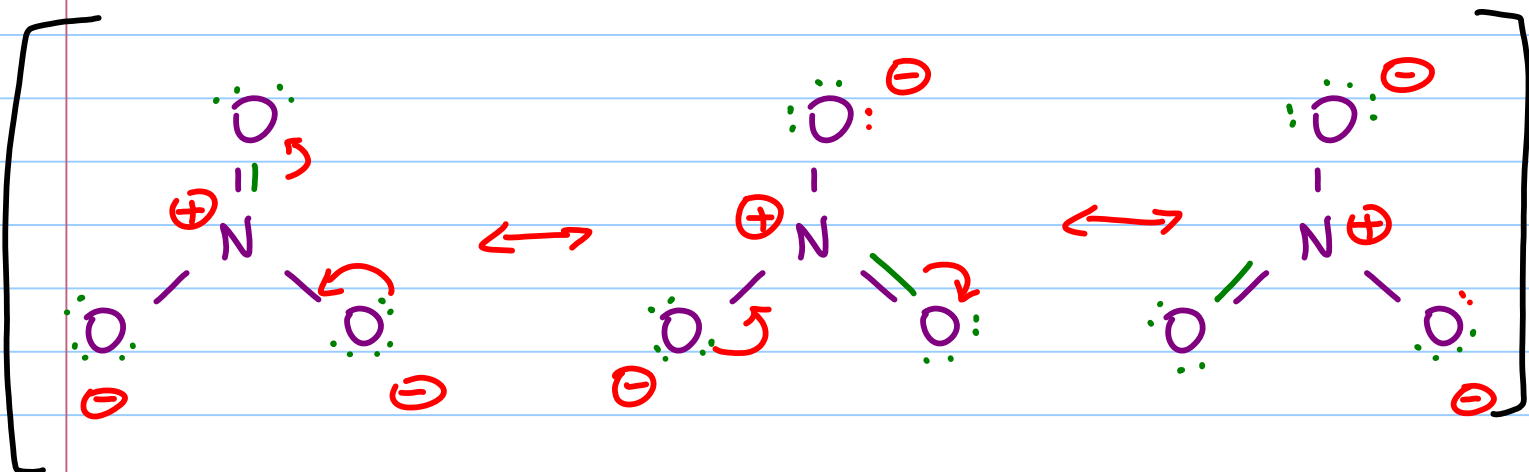
LEAH4SCI.COM/RESONANCE

Video solutions + step by step explanations in the

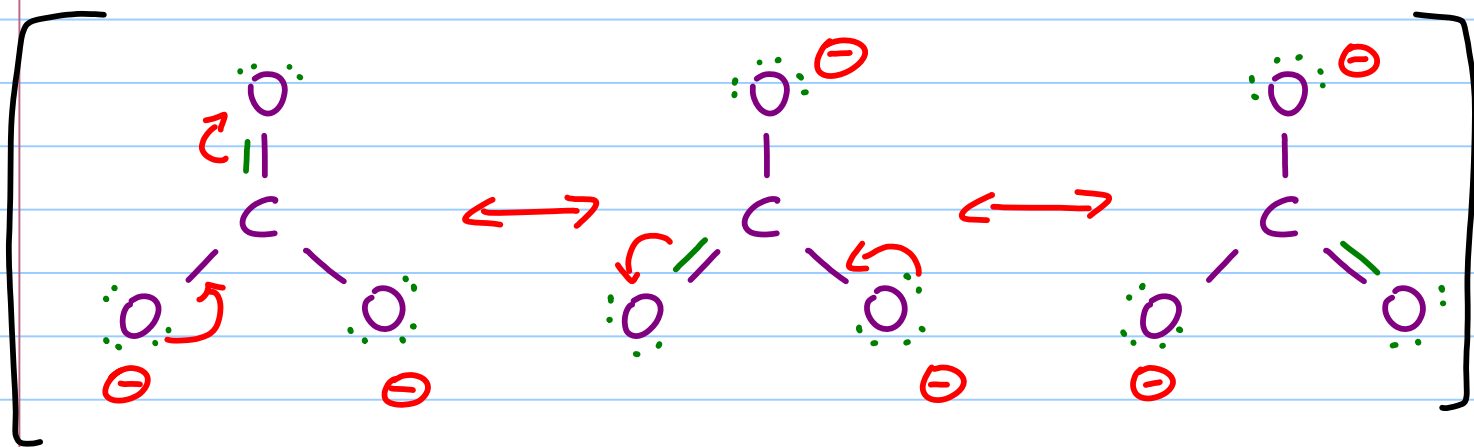
Organic Chemistry Study Hall

LEAH4SCI.COM/STUDY

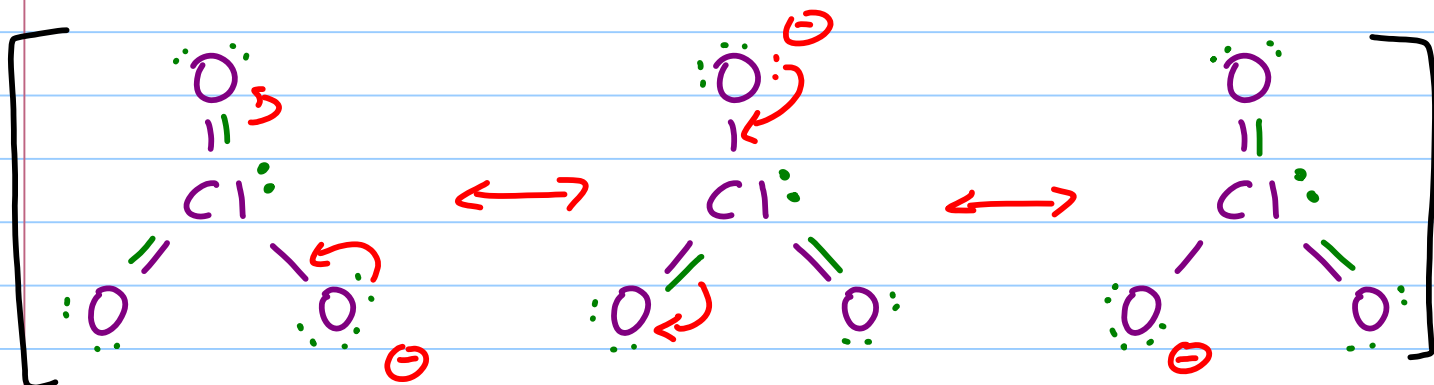
1a) NO_3^-



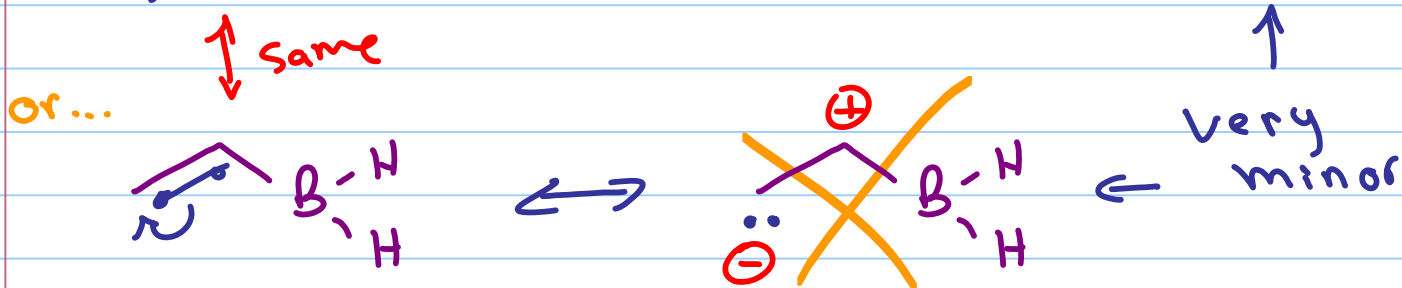
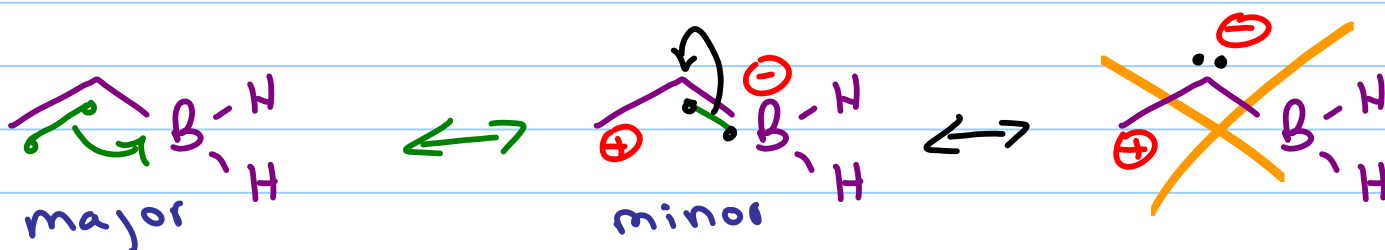
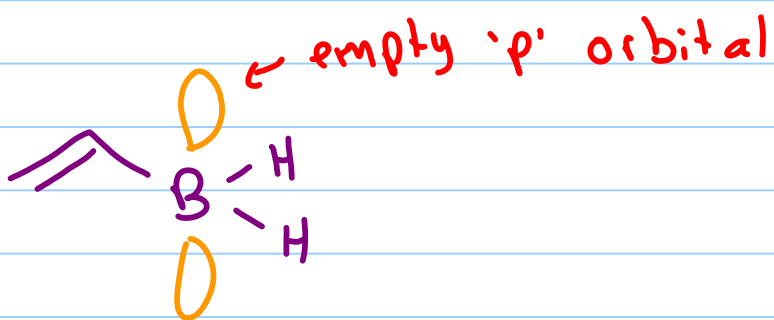
1b) CO_3^{2-}



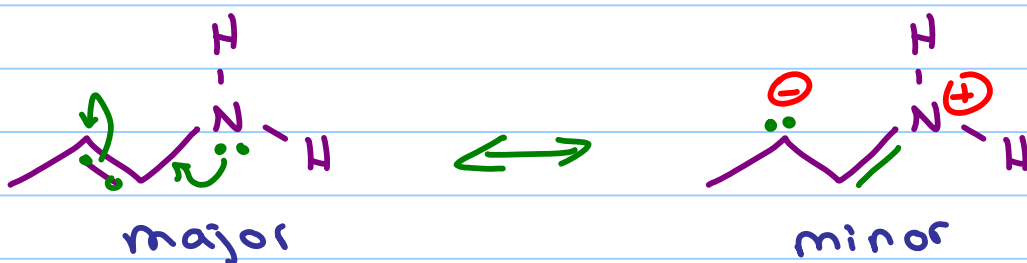
1c) ClO_3^-



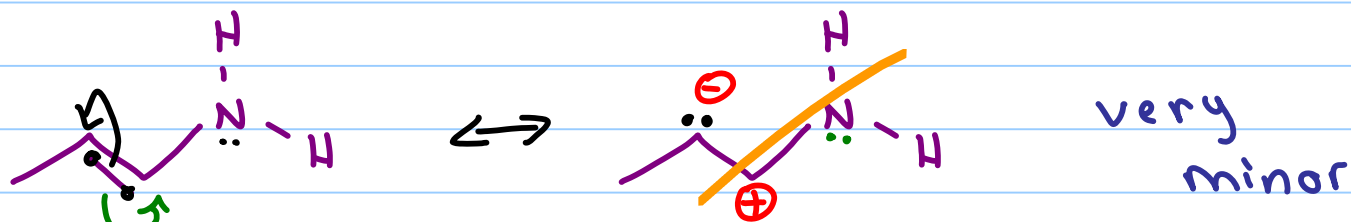
②



③

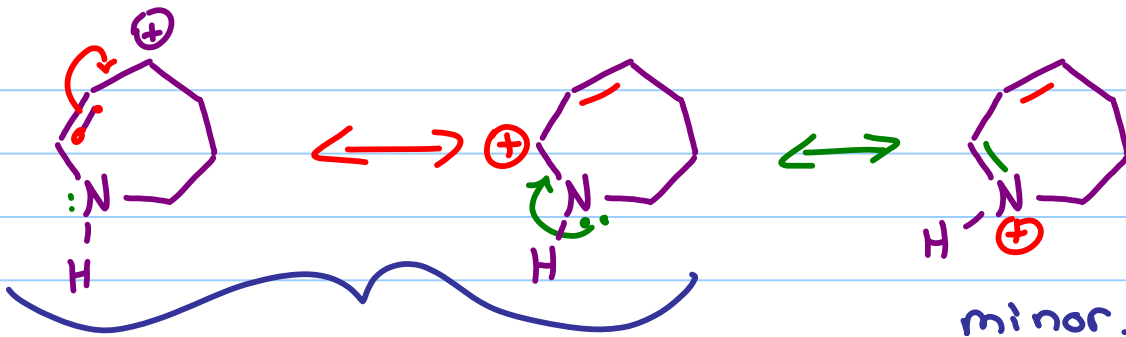


or...



or right - both bad

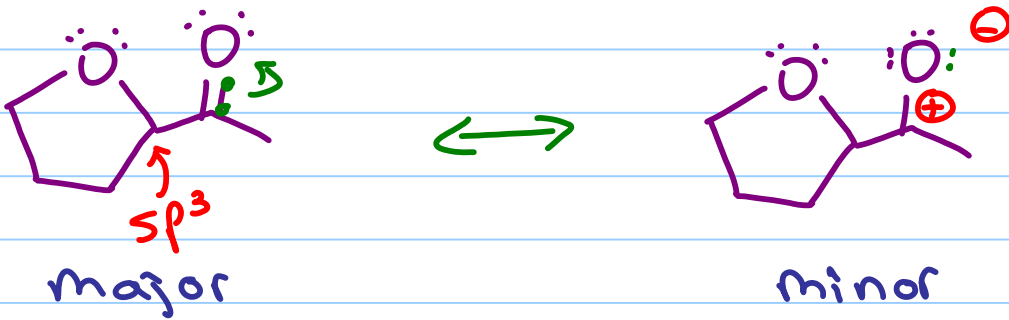
4



major - C less eneg vs N and holds \oplus better

minor. N more electronegative vs C

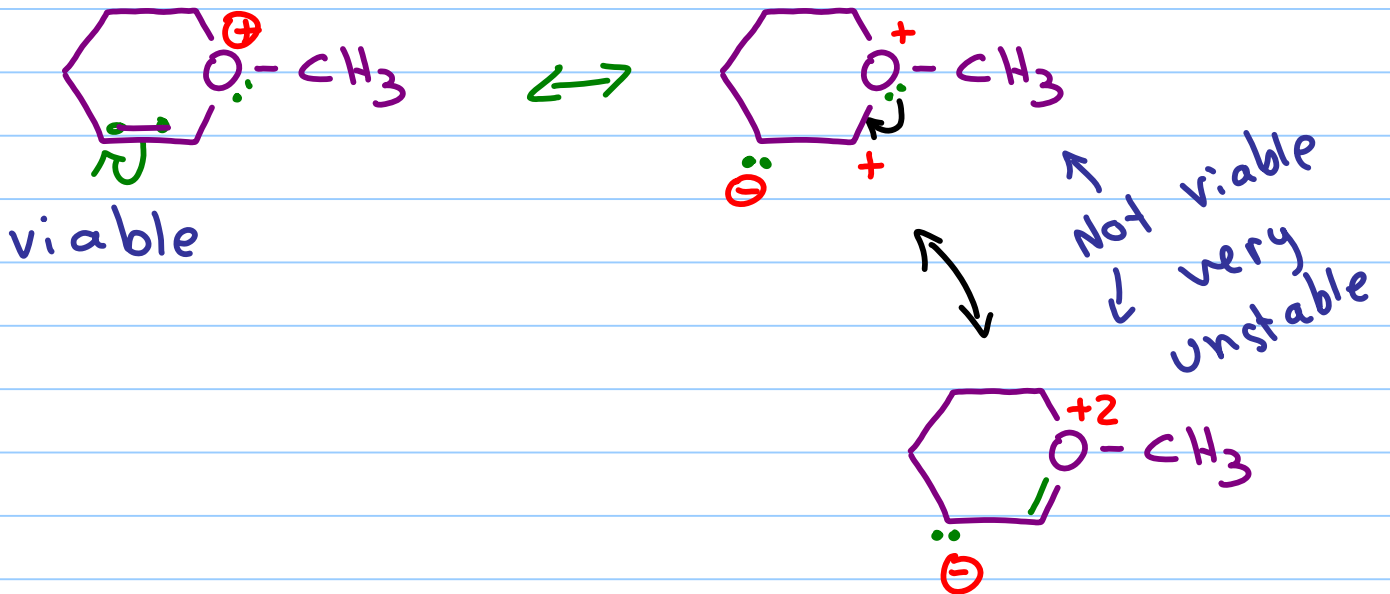
5



major

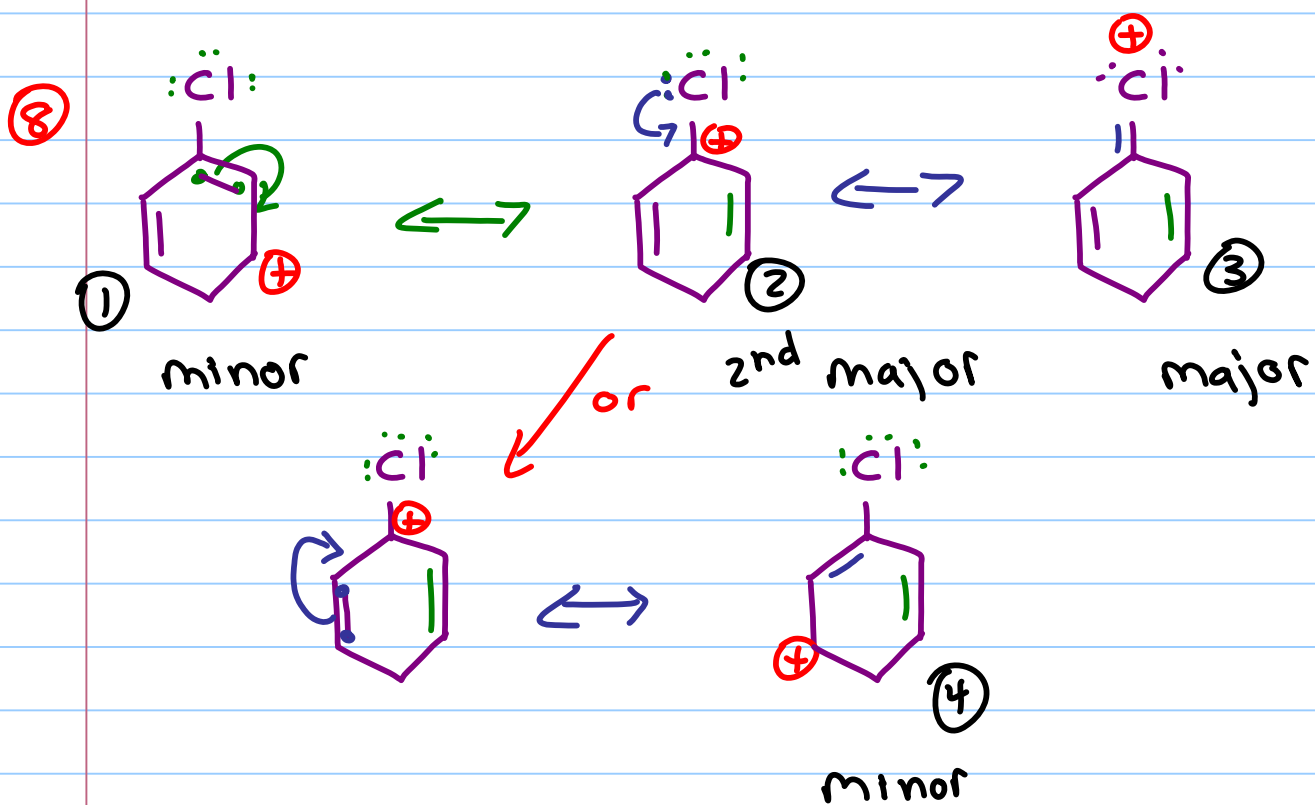
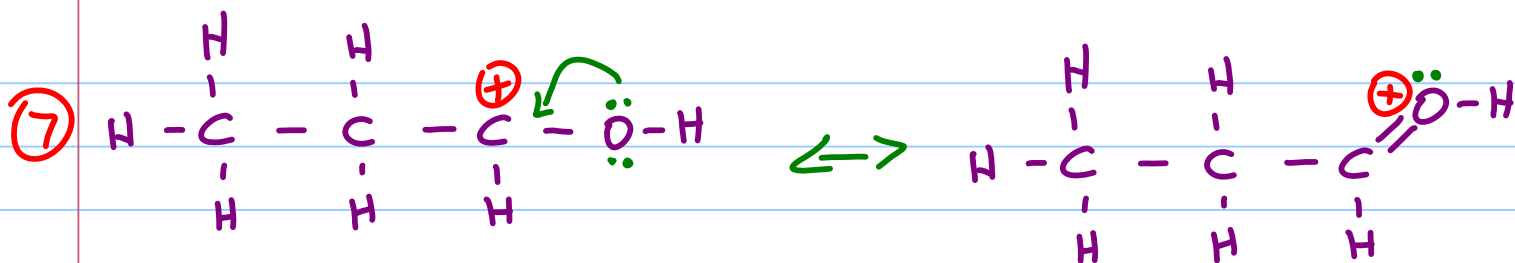
minor

6

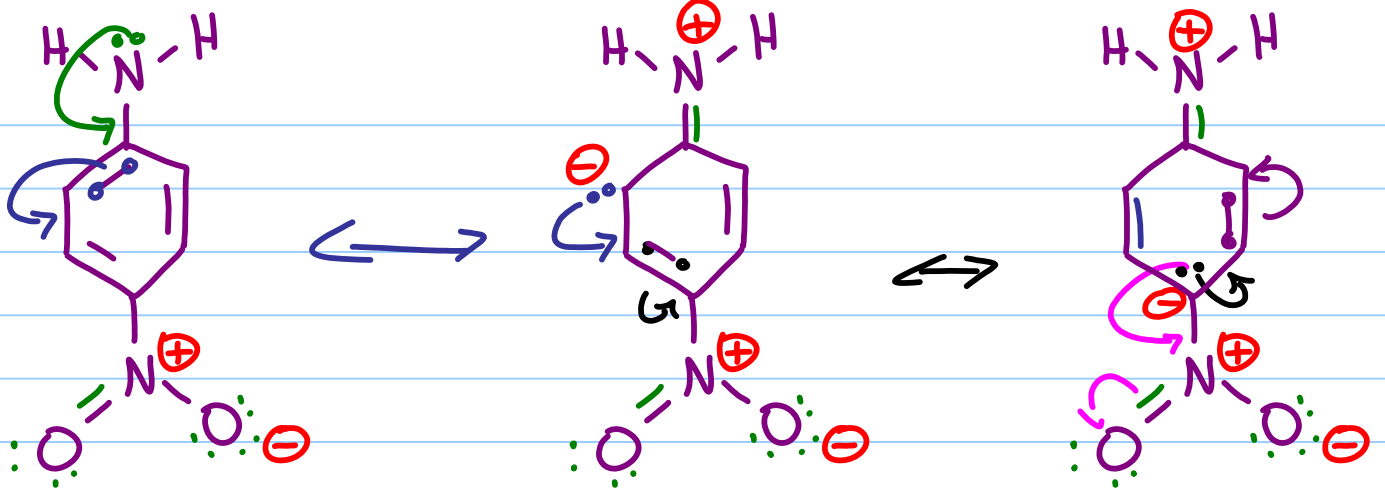


viable

Not viable
very unstable

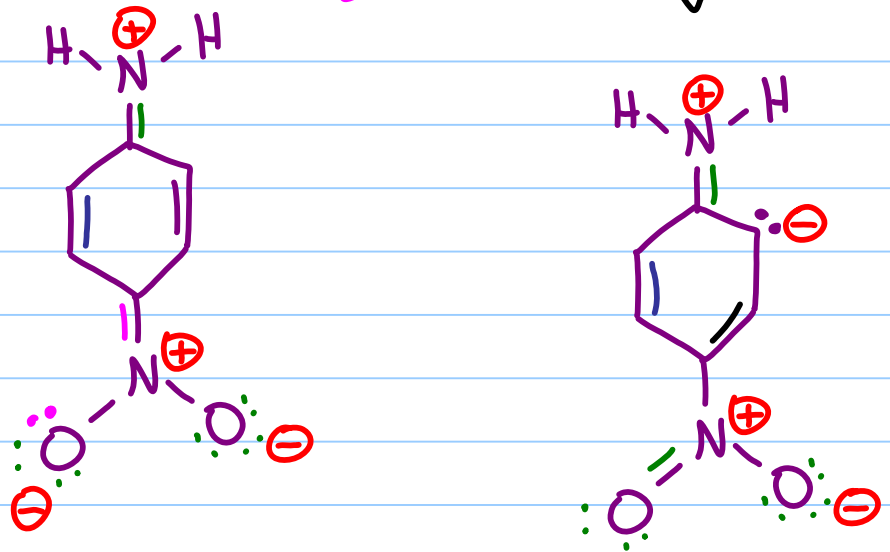


9

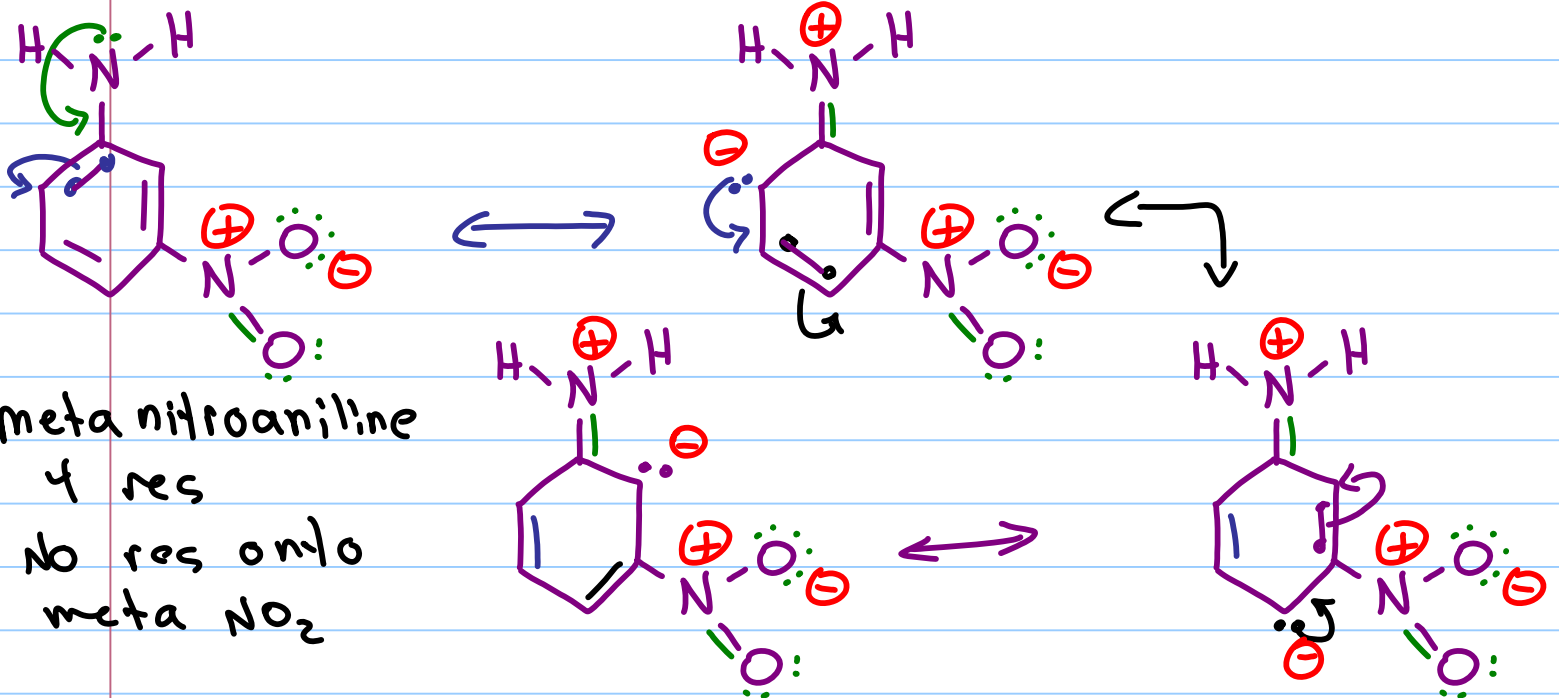


para nitroaniline

5 res due
to res on
NO₂

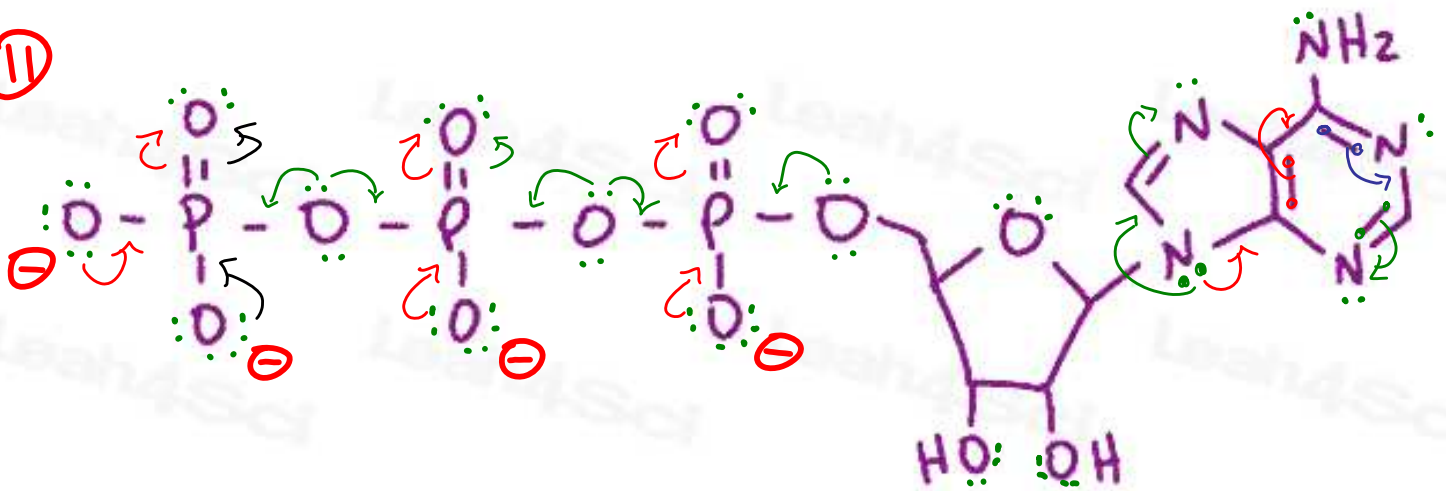


10

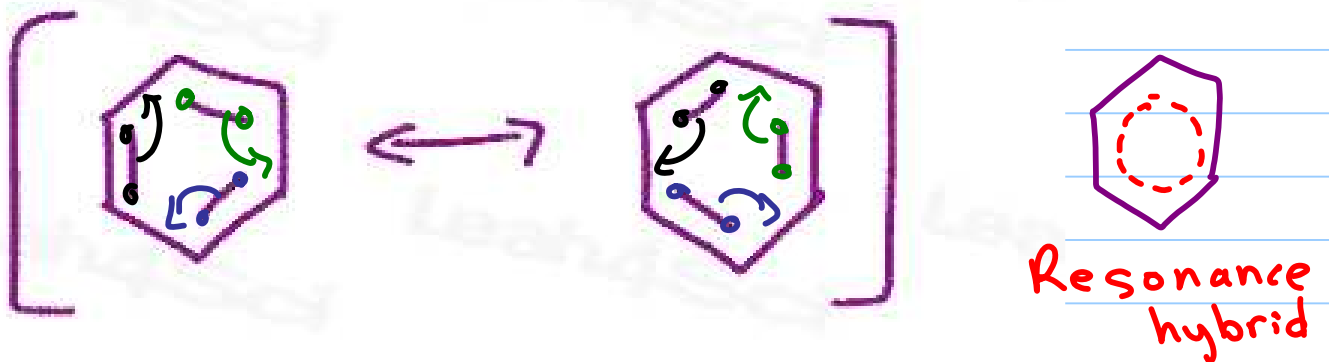


meta nitroaniline
4 res
No res on/lo
meta NO₂

11

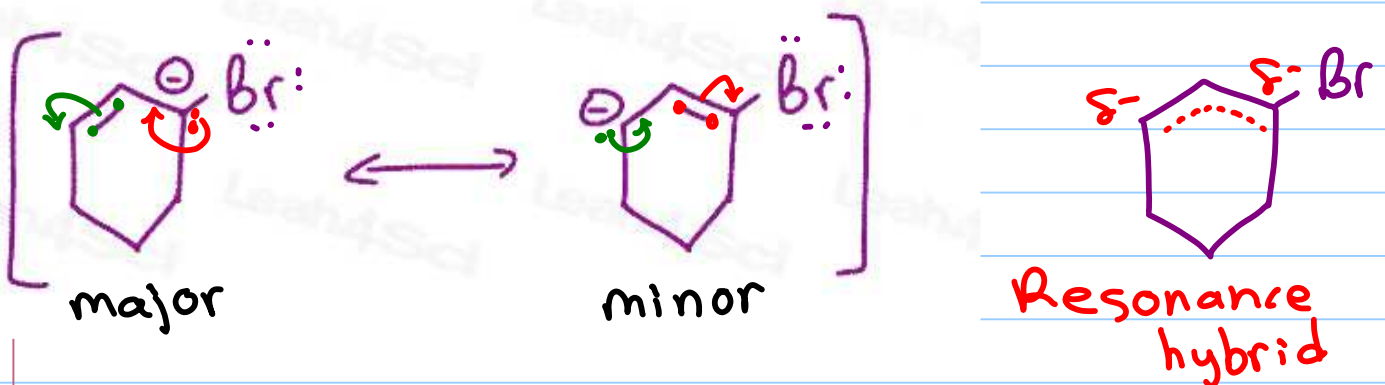


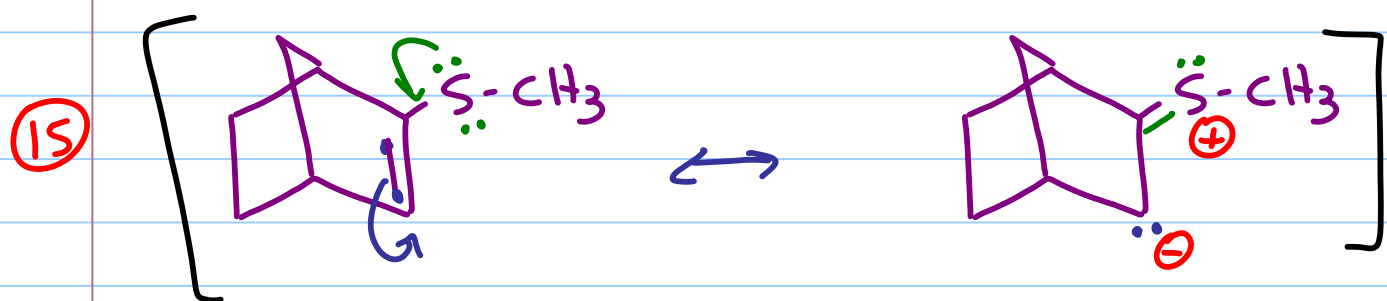
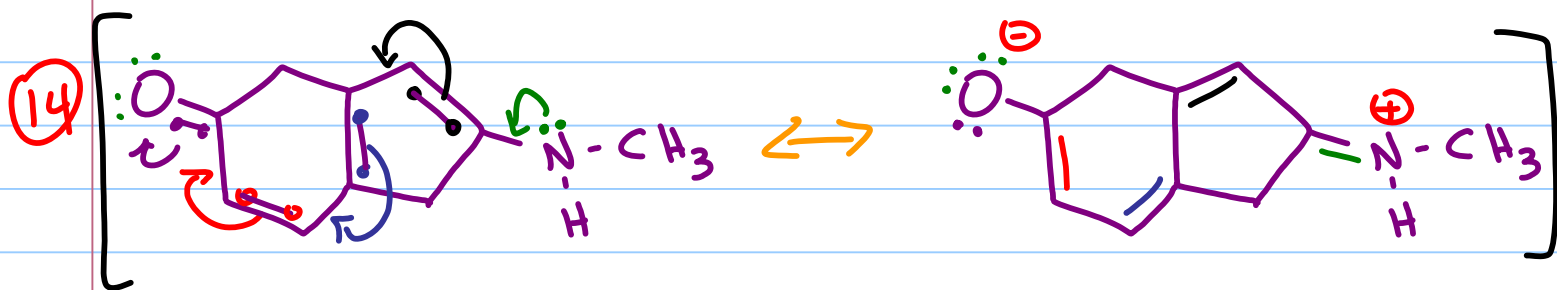
12



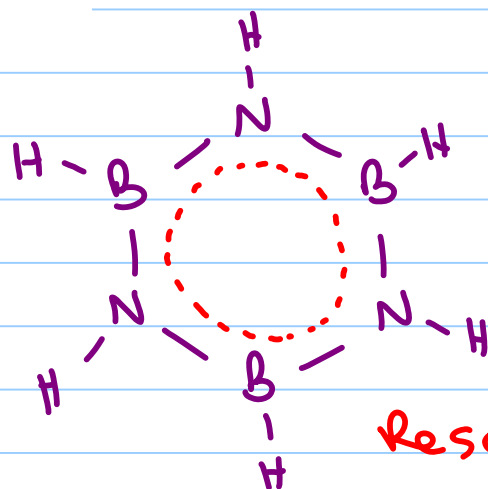
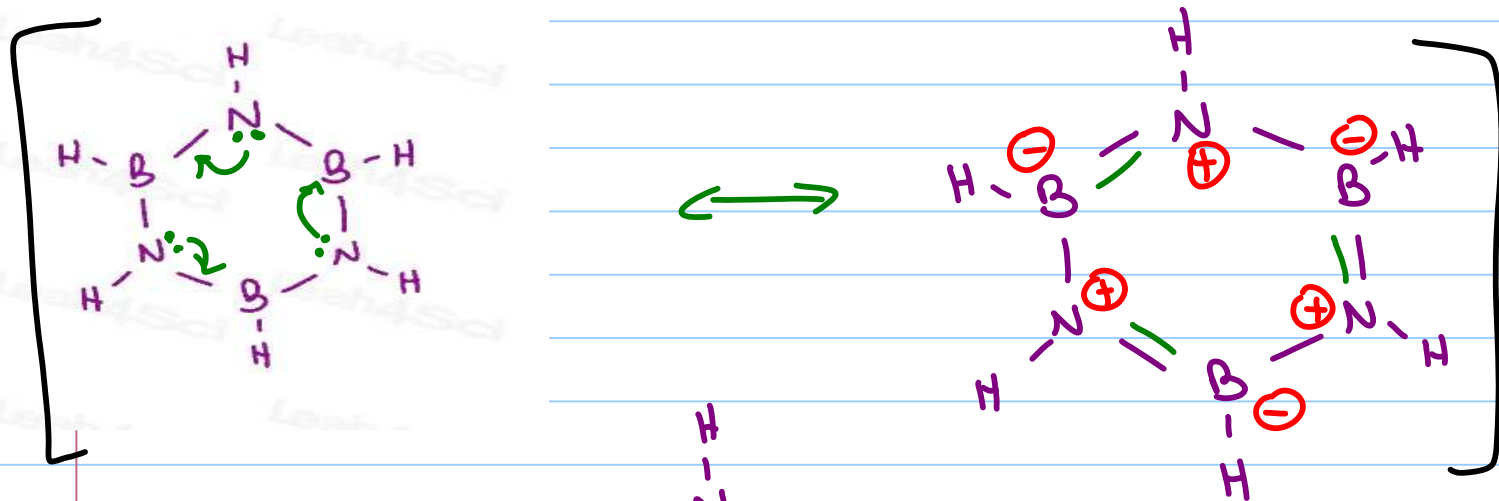
both = major. exactly the same

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Bonus Question



Resonance hybrid