

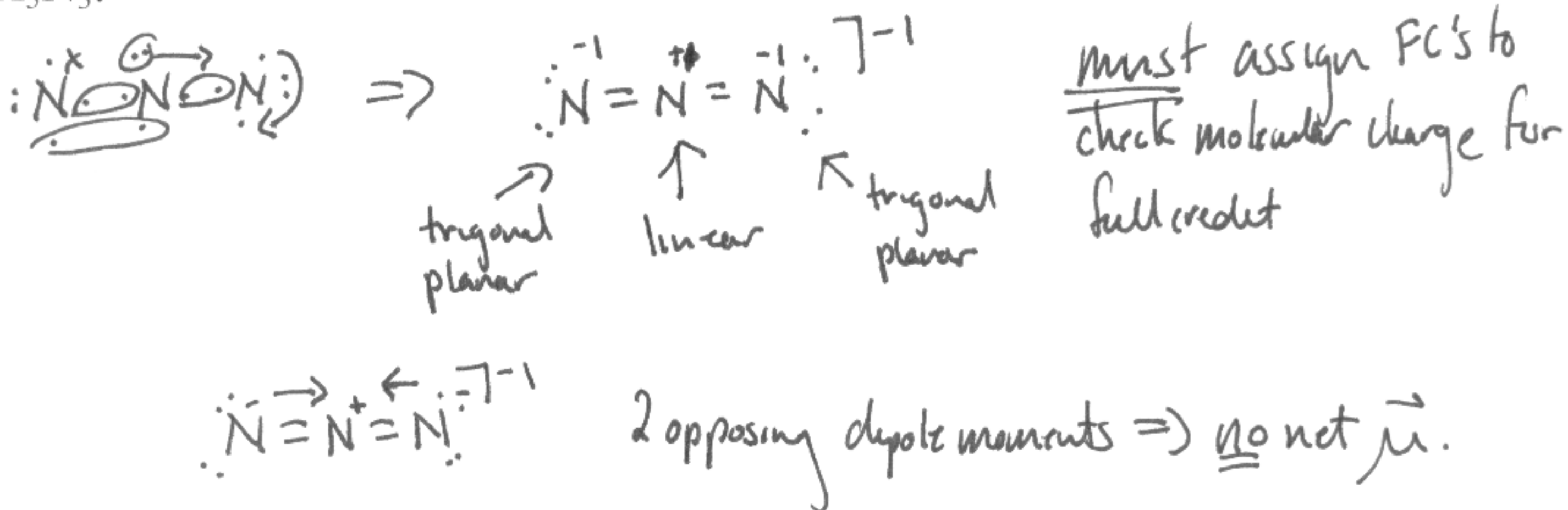
CH301H – Principles of Chemistry I: Honors  
Fall 2012, Unique 51390

Quiz 2, 20 September 2012

The azide ion,  $\text{N}_3^-$ , is a common reagent in chemical reactions.

- Draw the Lewis dot structure of azide.
- Name the appropriate molecular geometry around each nitrogen atom in the azide ion.
- Determine whether azide has a permanent dipole moment and justify your answer.

Extra Credit (not much): Azide reacts with organic compounds to form carbon-nitrogen bonds. Repeat a) – c) for the compound methyl azide,  $\text{CH}_3\text{N}_3$ .



EC:

