

Quiz 4.1 – Covalent Bonds

Name: Kery

Question 1

Based on their position on the periodic table, predict how many bonds each element will typically form



Question 2

Use Lewis dot diagrams to show how the bonds are formed in the molecules NH_3 and CO_2 

Question 3

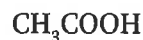
Give the total number of valence electrons in each compound:



8



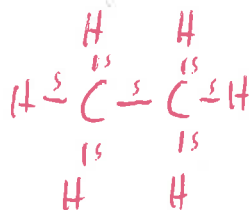
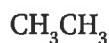
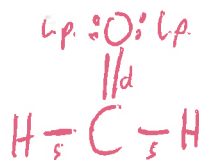
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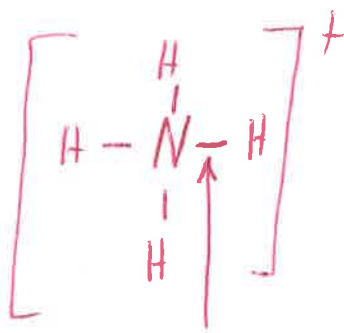
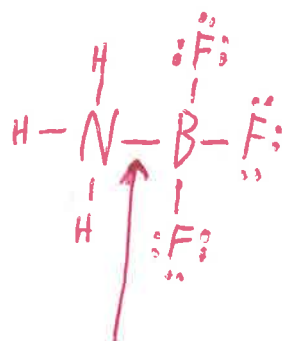
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Question 4

Draw a Lewis structure for each compound. Identify single bonds, double bonds, triple bonds, and lone pairs on each structure:



Question 5

Draw a Lewis structure and identify which bond is a *coordinate covalent bond* in each compound:

(any one, really)

