In Class 7: Lewis Dot Structures, VSEPR, resonance, and bonding applications

1. Is energy released or absorbed when a bond is formed? Why?

2. Draw valid Lewis dot structures (including equivalent resonance structures if relevant) for the following and then predict the geometry and bond angles:

    a. H_3PO_4

    b. CO_3^{2-}

    c. KrF_3^+

Justify the following statement using diagrams and appropriate bonding models: The N-O bond distance in NO_3^- is longer than that in NO_2^-.