1. (10 points) Silberberg 11.48. Note that in part (c), it is sufficient to write down the ideal bond angle at points \(a\), \(b\), and \(c\).

2. (5 points) Silberberg 11.57

3. (6 points) Silberberg 12.42

4. (5 points) Silberberg 12.46. One explanation will suffice for all three comparisons.

5. (9 points) Silberberg 12.50. Here, you should give a different explanation for each of the three comparisons.

6. (3 points) Silberberg 12.55

7. (5 points) Silberberg 12.62