MN is parallel to PQ. Identify each pair of angles as corresponding, alternate interior, alternate exterior angles, or none of the above.

1. \( \angle 3, \angle 6 \) **AIA**
2. \( \angle 5, \angle 7 \) **Corr.**
3. \( \angle 1, \angle 2 \) **None**
4. \( \angle 1, \angle 8 \) **AEA**
5. \( \angle 8, \angle 6 \) **Corr.**
6. \( \angle 4, \angle 7 \) **None**
7. \( \angle 2, \angle 7 \) **AIA**
8. \( \angle 6, \angle 7 \) **SSIA**

AB is parallel to CD. Use the diagram to answer the following.

9. Name two angles that have the same measure as \( \angle 2 \). \( \angle 4, \angle 6, \angle 7 \)
10. Name an angle that is supplementary to \( \angle 6 \). \( \angle 8, \angle 5, \angle 3, \angle 1 \)
11. If \( m\angle 4 = 46^\circ \), find \( m\angle 5 \). \( 134^\circ \)
12. If \( m\angle 1 = 131^\circ \), find \( m\angle 7 \). \( 49^\circ \)
Find the measure of each numbered angle.

13 \(MN\) is parallel to \(PQ\).

- \(\angle 1 = 78^\circ\) vert. \(\angle\)
- \(\angle 2 = 78^\circ\) AIA w/ \(\angle 1\)
- \(\angle 3 = 78^\circ\) corr w/ \(\angle 1\)

14 \(MN\) is parallel to \(PQ\).

- \(\angle 1 = 107^\circ\) corr
- \(\angle 2 = 107^\circ\) vert. \(\angle\)