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1. 140° ; $\angle 8$ and the given angle are alternate exterior angles.
2. 140° ; $\angle 8$ and $\angle 5$ are vertical angles.
3. 40° ; $\angle 8$ and $\angle 7$ are supplementary.
4. 40° ; $\angle 2$ and the given angle are supplementary.
5. 41° , 49° , 90°
6. 35° , 35° , 110°
7. 125°
8. 110°
9. 77° , 60° , 128° , 95°
10. 110° , 135° , 125° , 135° , 105° , 150° , 140°
11. 125° , 100° , 120° , 60° , 250° , 65°
12. 135° , 100° , 125°
13. 60° , 60° , 60° , 60° , 60° , 60°
14. yes; The triangles have the same angle measures, 90° , 68° , and 22° .