

Geometry, Concepts and Skills: Homework Help for Chapter 2

Homework Help

Lesson 2.4: Vertical Angles

Help for Exercises 28–33 on page 79

Exercises 28–33 can be solved using the Vertical Angles Theorem and the Linear Pair Postulate. The two can be used in either order, and in various combinations.

For example, the following are two ways you might solve Exercise 28:

- You can use the Vertical Angles Theorem to find the measure of $\angle 2$, then the Linear Pair Postulate (twice) to find the measures of $\angle 1$ and $\angle 3$.
- You can use the Linear Pair Postulate to find the measure of $\angle 1$, then the measure of $\angle 2$ (based on the measure of $\angle 1$), and, finally, the measure of $\angle 3$ (based on the measure of $\angle 2$).