

Name ___

DATE

For use with pages 543–549

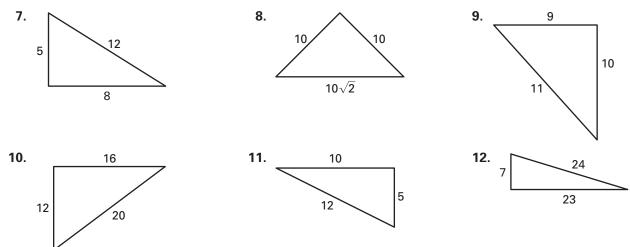
Practice A

Decide whether the numbers can represent the side lengths of a

triangle.

1. 5, 4, 3	2. 5, 6, 7	3. 5, 5, 10
4. 5, 10, 10	5. 5, 10, 15	6. 5, 15, 15

Tell whether the triangle is a right triangle.

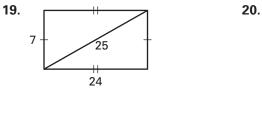


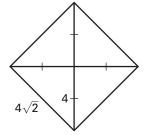
Classify the triangles with the given side lengths as *right*, *acute*, or *obtuse*.

13. 6, 8, 10	14. 6, 6, 10	15. 6, 10, 10
16. $\sqrt{6}, \sqrt{8}, \sqrt{10}$	17. 0.6, 0.8, 1.0	18. 7, 9, 11

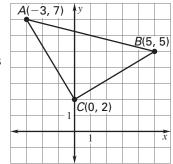
Classify the quadrilateral. Explain how you can prove that the quadrilateral is that type.







21. 10



In Exercises 22–24, you will use two different methods for determining whether $\triangle ABC$ is a right triangle.

- **22.** *Method* 1 Find the slope of \overline{AC} and the slope of \overline{BC} . What do the slopes tell you about $\angle ACB$? Is $\triangle ABC$ a right triangle? How do you know?
- **23**. *Method* **2** Use the Distance Formula and the Converse of the Pythagorean Theorem to determine whether $\triangle ABC$ is a right triangle.
- **24.** Which method would you use to determine whether a given triangle is right, acute, or obtuse? Explain.