

Name _____

Date _____

LESSON 7.2

Practice B

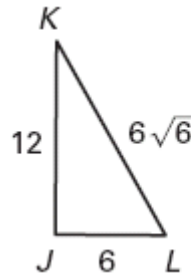
For use with pages 440–447

Decide whether the numbers can represent the side lengths of a triangle. If they can, classify the triangle as *right*, *acute*, or *obtuse*.

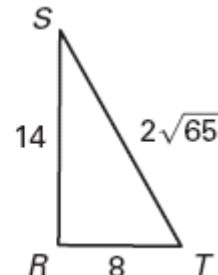
- 5, 12, 13
- $\sqrt{8}$, 4, 6
- 20, 21, 28
- 15, 36, 39
- $\sqrt{13}$, 10, 12
- 14, 48, 50

In Exercises 7 and 8, copy and complete the statement with $<$, $>$ or $=$, if possible. If it is not possible, *explain why*.

7. $m\angle J$ _____ $m\angle R$



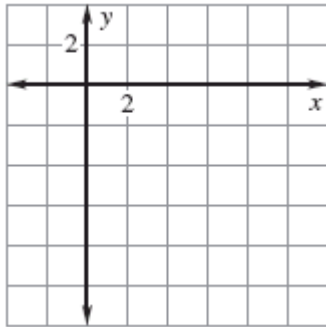
8. $m\angle K + m\angle L$ _____ $m\angle S + m\angle T$



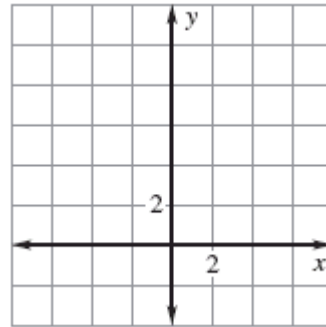
9. **Multiple Choice** What type of triangle has side lengths of 14, 11, and 25?
A. Acute B. Right C. Obtuse D. None

Graph points A , B , and C . Connect the points to form $\triangle ABC$. Decide whether $\triangle ABC$ is *right*, *acute*, or *obtuse*.

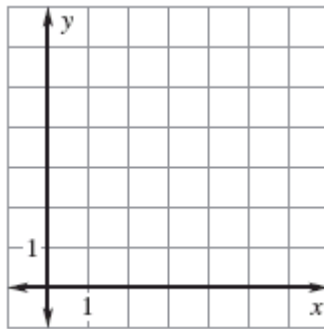
10. $A(4, 1)$, $B(7, -2)$, $C(2, -4)$



11. $A(-2, 2)$, $B(6, 4)$, $C(-4, 10)$



12. $A(0, 5)$, $B(3, 6)$, $C(5, 1)$



The roof shown in the diagram at the right is shown from the front of the house.

The slope of the roof is $\frac{5}{12}$. The height of the roof is 15 ft (*Note: Remember $\text{slope} = \frac{\text{rise}}{\text{run}}$*). *Hint: Find the base in order to find the hypotenuse!*

13. What is the length from gutter to peak of the roof?

