

Name: _____



PRACTICE



TUTORIAL

IN-1 Additional Practice

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In 1–4, determine whether the angle measures could be the measures of the interior angles of a triangle.

1. $43^\circ, 37^\circ, 100^\circ$

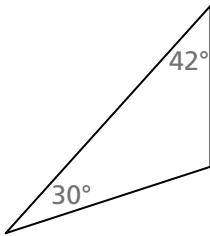
2. $45^\circ, 45^\circ, 50^\circ$

3. $35^\circ, 60^\circ, 85^\circ$

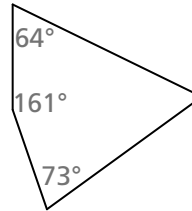
4. $111^\circ, 62^\circ, 7^\circ$

In 5–8, find the unknown angle measure in each triangle or quadrilateral.

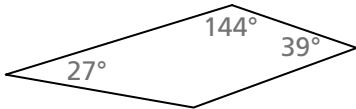
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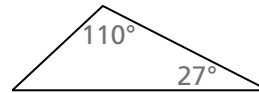
6.



7.

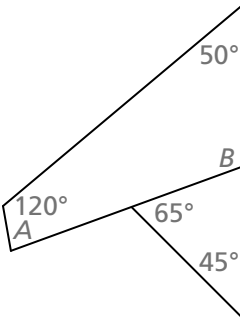


8.

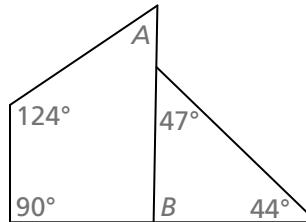


In 9 and 10, find the measures of angles *A* and *B*.

9.



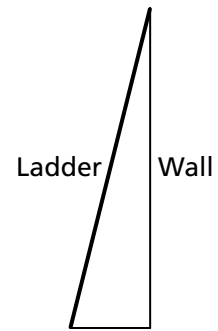
10.



11. Model with Math Selena's backyard is shaped like a triangle. The angles next to the house are 63° and 47° . Write and solve an equation to find the measure of the third angle.



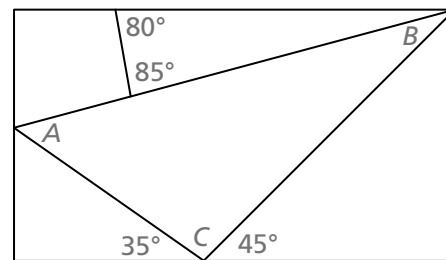
- 12. Reasoning** A ladder is propped up against the outside wall of a house where the ground is level. If the angle the ladder forms with the wall is 14° , what angle does the ladder form with the ground? Explain.



- 13.** A tabletop is made in the shape of a quadrilateral. Two of the angles are right angles, and one of the other angles measures 78° . What is the measure of the fourth angle of the tabletop?

- 14.** Evie is designing a triangular ramp. Her diagram of the ramp shows three angles with measures of 82° , 46° , and 51° . Jordan tells Evie that she cannot build a triangular ramp with those angles. Do you agree or disagree with Jordan? Explain.

- 15. Higher Order Thinking** Hector is making a rectangular wooden puzzle for his grandchildren. He needs to cut the triangular piece that is to be located in the center of the puzzle. What are the measures of angles A , B , and C ?



Assessment Practice

- 16.** Choose Yes or No to tell which of the sets of angles could be the interior angles of a triangle.
- a. $24^\circ, 37^\circ, 118^\circ$ Yes No
 - b. $18^\circ, 115^\circ, 47^\circ$ Yes No
 - c. $33^\circ, 99^\circ, 48^\circ$ Yes No
 - d. $75^\circ, 75^\circ, 35^\circ$ Yes No
- 17.** Three of the interior angles in a quadrilateral measure 66° , 105° , and 82° . Which of the following is the measure of the fourth interior angle of the quadrilateral?
- (A) 95°
 - (B) 97°
 - (C) 100°
 - (D) 107°

