

LESSON
7-5 **Homework and Practice**
Triangles

Use the diagram to find the measure of each indicated angle.

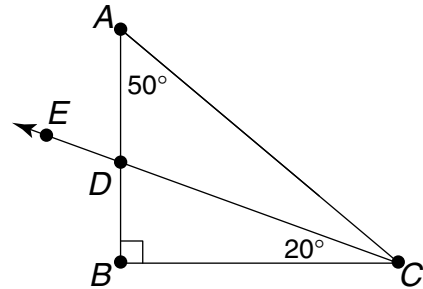
1. $\angle BDC$

2. $\angle BCA$

3. $\angle ADC$

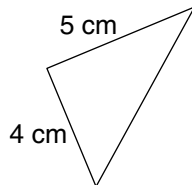
4. $\angle ACD$

5. $\angle EDA$

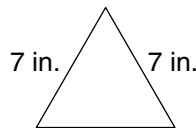


Classify each triangle using the given information.

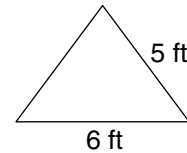
6. The sum of the lengths of the three sides is 15 cm.



7. The sum of the lengths of the three sides is 21 in.



8. The sum of the lengths of the three sides is 16 ft.



9. The angles of the sail of a paper boat measure 90° , 45° , and 45° . Each side measures approximately 2.8 inches, 2 inches, and 2 inches. Classify the triangular shape of the sail in two different ways.

10. One angle in one triangle is congruent to one angle in another triangle. What can you conclude about the other two angles in both triangles?

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Triangles

Use the diagram to find the measure of each indicated angle.

1. $\angle BDC$

70°

2. $\angle BCA$

40°

3. $\angle ADC$

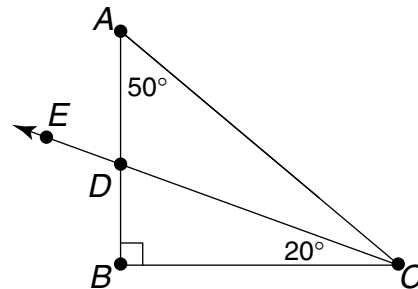
110°

4. $\angle ACD$

20°

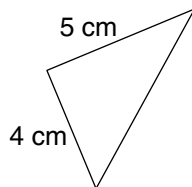
5. $\angle EDA$

70°



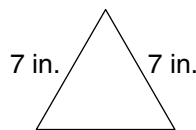
Classify each triangle using the given information.

6. The sum of the lengths of the three sides is 15 cm.



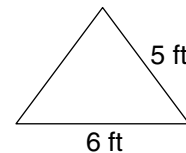
scalene

7. The sum of the lengths of the three sides is 21 in.



equilateral

8. The sum of the lengths of the three sides is 16 ft.



isosceles

9. The angles of the sail of a paper boat measure 90° , 45° , and 45° . Each side measures approximately 2.8 inches, 2 inches, and 2 inches. Classify the triangular shape of the sail in two different ways.

It's a right triangle; It's a isosceles triangle.

10. One angle in one triangle is congruent to one angle in another triangle. What can you conclude about the other two angles in both triangles?

You cannot make any conclusions.