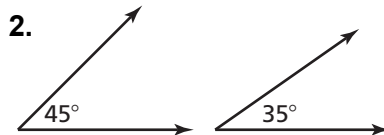
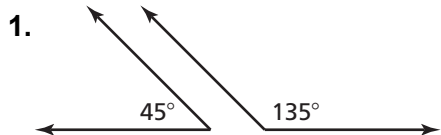


Chapter 5 Test A

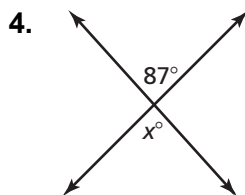
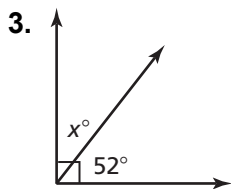
Tell whether the angles are *complementary*, *supplementary*, or *neither*.



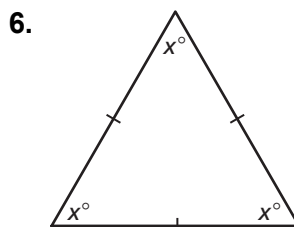
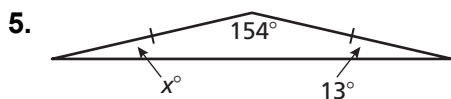
Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

Find the value of x .



Find the value of x . Then classify the triangle in as many ways as possible.

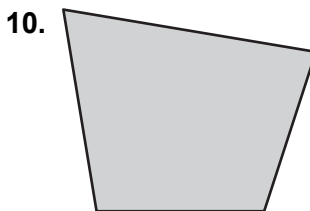
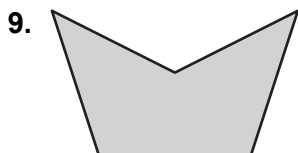


Tell whether a triangle can have the given angle measures. If not, change the first angle measure so that the angle measures form a triangle.

7. $47^\circ, 109.6^\circ, 23.4^\circ$

8. $51^\circ, 90\frac{2}{3}^\circ, 48\frac{1}{3}^\circ$

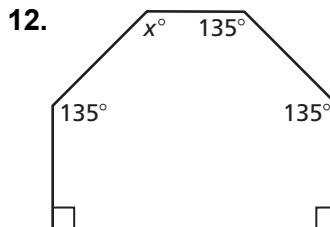
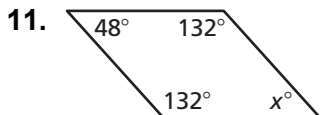
Use triangles to find the sum of the angle measures of the polygon. Tell whether the polygon is *convex* or *concave*.



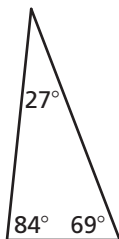
Chapter 5

Test A (continued)

Find the value of x .



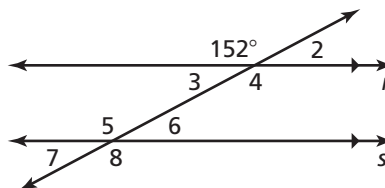
13. Tell whether the triangles are similar. Explain.



Use the figure to find the measure of the angle. Explain your reasoning.

14. $\angle 4$

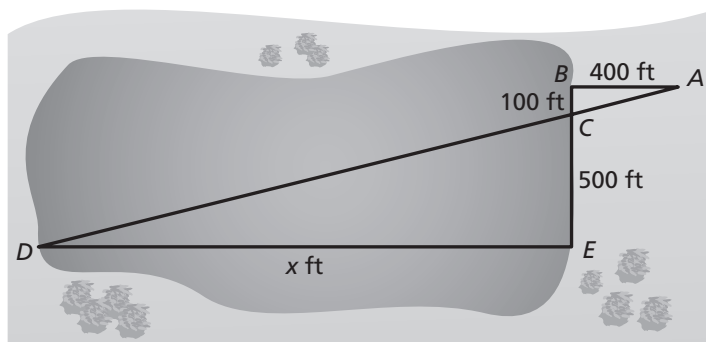
15. $\angle 5$



16. Angle 1 and angle 2 are supplementary. Angle 2 is vertical to a 75° angle. What are the measures of angle 1 and angle 2?

17. Can a hexagon have angles that measure 85° , 62° , 135° , 95° , 173° , and 160° ? Explain.

18. You want to paddle a canoe across a small lake and want to know how far it is to the other side. You take measurements on your side of the lake and make the drawing shown. What is the distance across the lake?



Answers

- 11. _____
- 12. _____
- 13. _____
- 14. _____
- 15. _____
- 16. _____
- 17. _____
- 18. _____