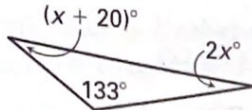


10.1**Practice**

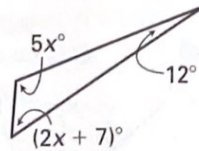
For use with pages 511-515

Find the value of x . Then classify the triangle by its angle measures.

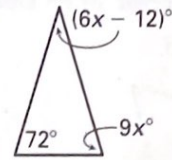
1.



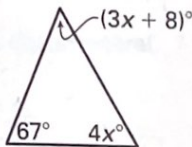
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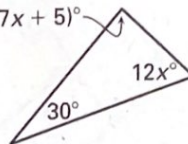
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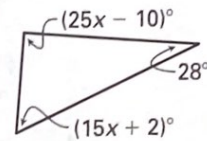
4.



5.



6.



7. The perimeter of an equilateral triangle is 156 feet. Find the length of each side.
8. The perimeter of an isosceles triangle is 89 centimeters. The length of one side is 35 centimeters. The lengths of the other two sides are equal. Find the lengths of the other two sides.
9. The ratio of the angle measures in a triangle is $11 : 14 : 20$. Find the angle measures. Then classify the triangle by its angle measures.

10.1

Continued

Practice

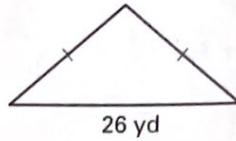
For use with pages 511-515

Find the unknown side lengths of the triangle given the perimeter P . Then classify the triangle by its side lengths.

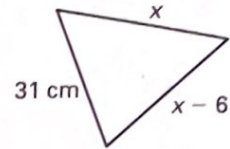
10. $P = 51$ in.



11. $P = 64$ yd

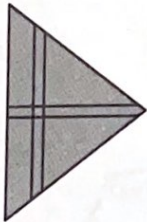


12. $P = 93$ cm



13. The ratio of the side lengths of a triangle is $4 : 7 : 9$. The perimeter of the triangle is 120 feet. Find the side lengths. Then classify the triangle by its side lengths.

14. A sailboat flies the flag of a sailing club. The ratio of the side lengths of the flag is $9 : 9 : 11$. The perimeter of the flag is 116 inches. Find the side lengths. Then classify the triangle by its side lengths.



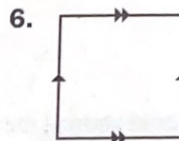
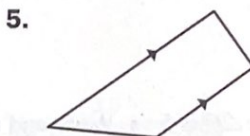
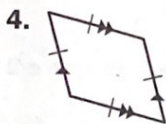
Practice

For use with pages 516-520

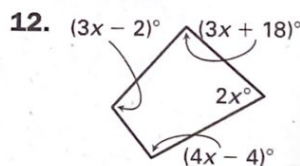
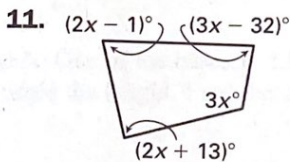
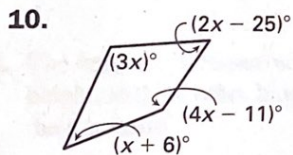
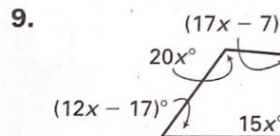
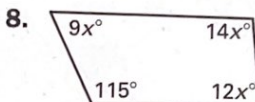
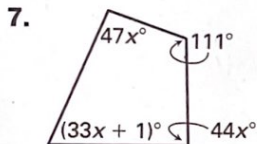
Tell whether the figure is a polygon. If it is a polygon, classify it and tell whether it is *convex* or *concave*. If it is not, explain why.



Classify the quadrilateral.



Find the value of x .



Practice

For use with pages 516-520

13. A quadrilateral has both pairs of opposite sides parallel. Sketch and classify the quadrilateral.

14. For the trapezoid shown, the ratio $m\angle B : m\angle D$ is 5 : 1. Write and solve an equation to find the value of x .

