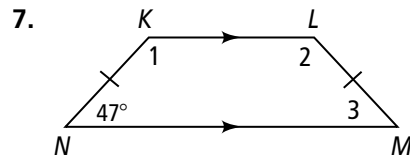
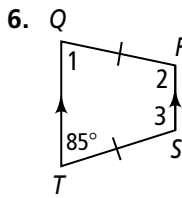
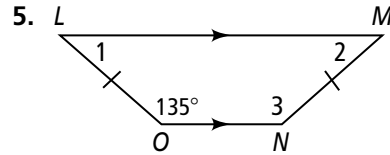
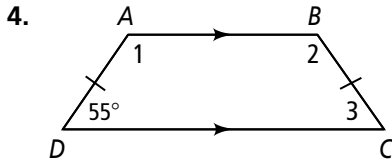
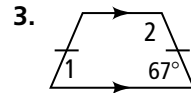
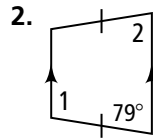
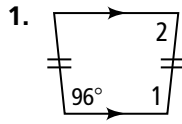


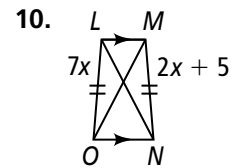
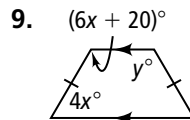
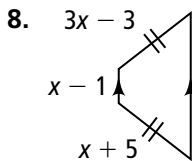
5.6

Trapezoids and Kites

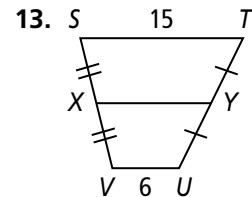
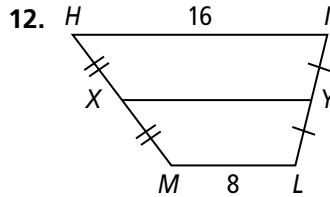
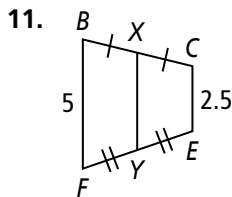
Find the measures of the numbered angles in each isosceles trapezoid.



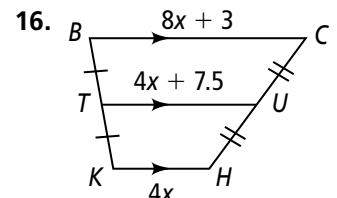
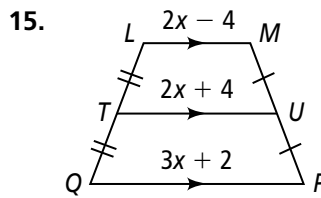
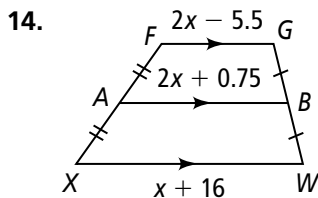
**Algebra** Find the value(s) of the variable(s) in each isosceles trapezoid.



Find XY in each trapezoid.



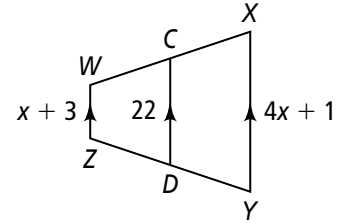
**Algebra** Find the lengths of the segments with variable expressions.



Trapezoids and Kites

17.  $\overline{CD}$  is the midsegment of trapezoid  $WXYZ$ .

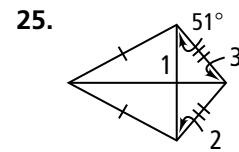
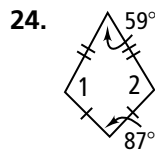
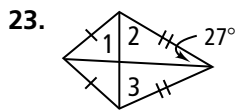
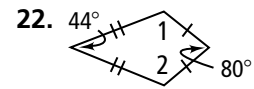
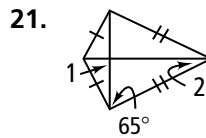
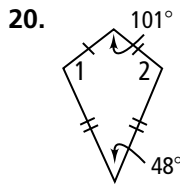
- a. What is the value of  $x$ ?
- b. What is  $XY$ ?
- c. What is  $WZ$ ?



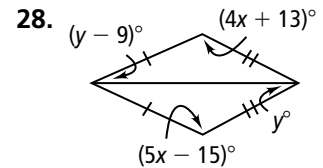
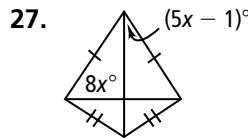
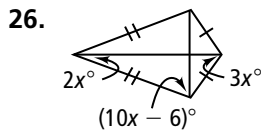
18. **Reasoning** The diagonals of a quadrilateral form two acute and two obtuse angles at their intersection. Is this quadrilateral a kite? Explain.

19. **Reasoning** The diagonals of a quadrilateral form right angles and its side lengths are 4, 4, 6, and 6. Could this quadrilateral be a kite? Explain.

Find the measures of the numbered angles in each kite.



**Algebra** Find the value(s) of the variable(s) in each kite.



For which value of  $x$  is each figure a kite?

