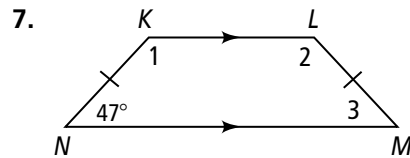
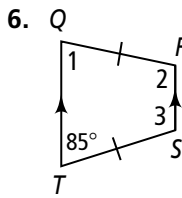
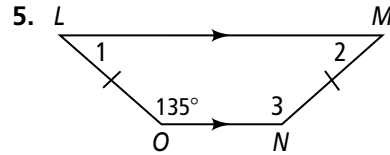
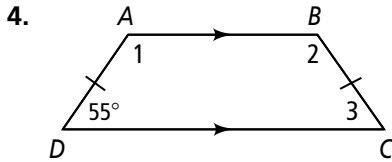
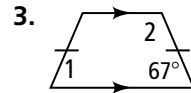
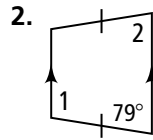
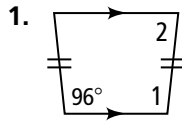


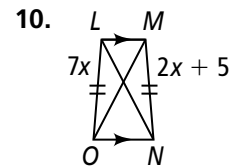
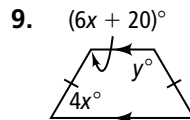
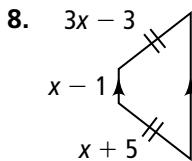
5.6

Trapezoids and Kites

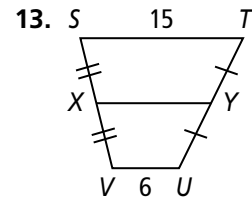
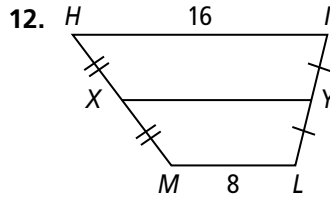
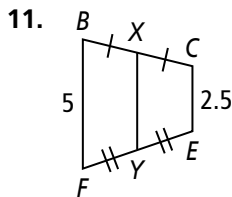
Find the measures of the numbered angles in each isosceles trapezoid.



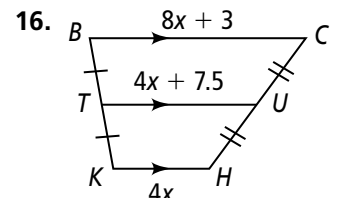
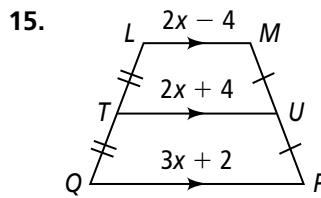
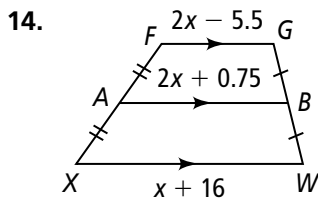
Algebra Find the value(s) of the variable(s) in each isosceles trapezoid.



Find XY in each trapezoid.



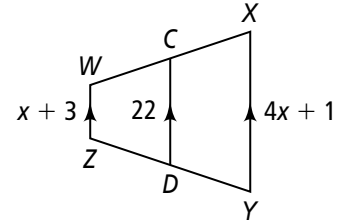
Algebra Find the lengths of the segments with variable expressions.



Trapezoids and Kites

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

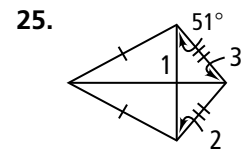
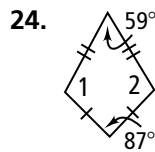
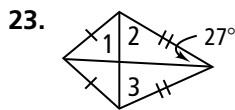
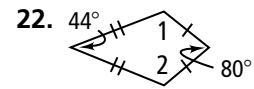
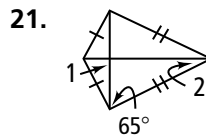
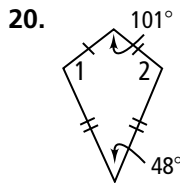
- What is the value of  $x$ ?
- What is  $XY$ ?
- What is  $WZ$ ?



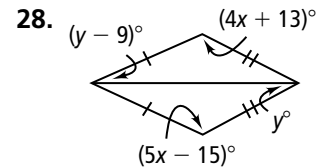
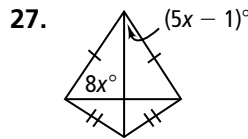
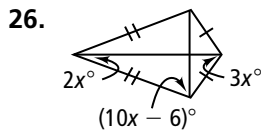
18. **Reasoning** The diagonals of a quadrilateral form two acute and two obtuse angles at their intersection. Is this quadrilateral a kite? Explain.

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?

