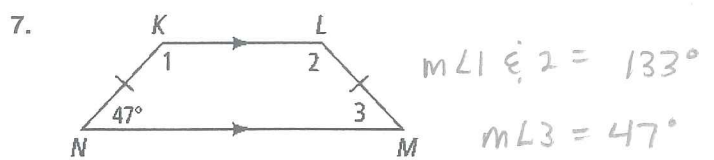
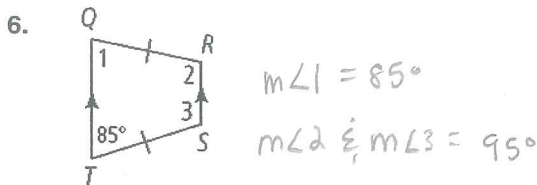
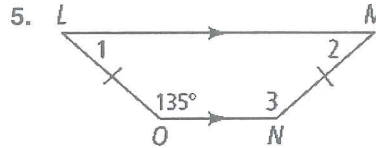
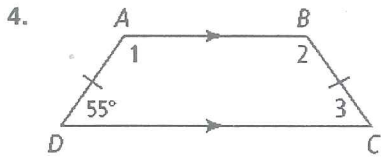
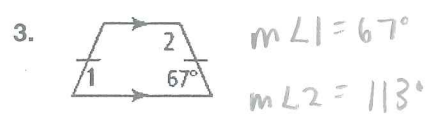
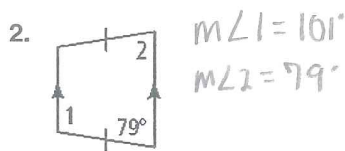
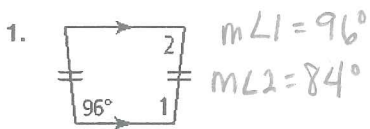
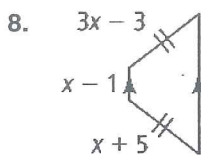


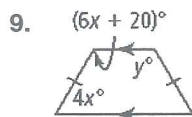
Find the measures of the numbered angles in each isosceles trapezoid.



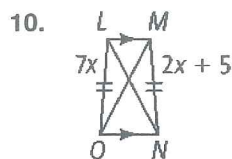
Algebra Find the value(s) of the variable(s) in each isosceles trapezoid.



$x = 4$

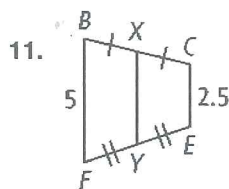


$x = 16$   
 $y = 116^\circ$

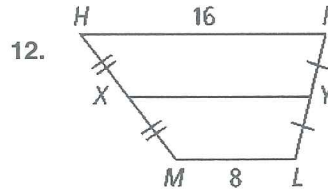


$x = 1$

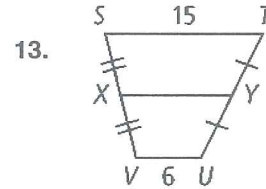
Find XY in each trapezoid.



$XY = 3.75$

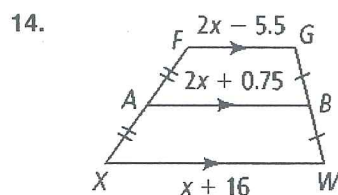


$XY = 12$

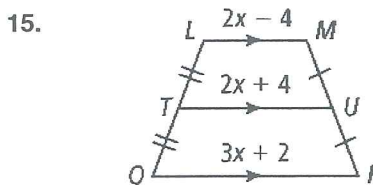


$XY = 10.5$

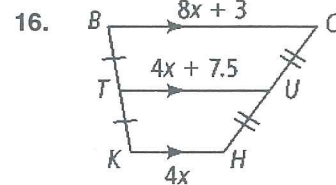
Algebra Find the lengths of the segments with variable expressions.



$x = 9$

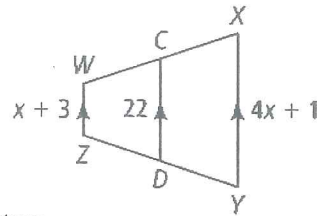


$x = 10$



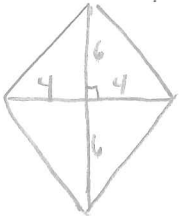
17.  $\overline{CD}$  is the midsegment of trapezoid  $WXYZ$ .

- a. What is the value of  $x$ ?  $x = 8$   
 b. What is  $XY$ ?  
 c. What is  $WZ$ ?



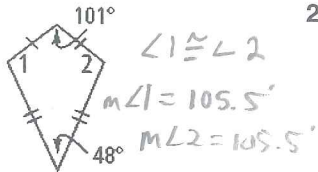
18. Reasoning The diagonals of a quadrilateral form two acute and two obtuse angles at their intersection. Is this quadrilateral a kite? Explain.

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.

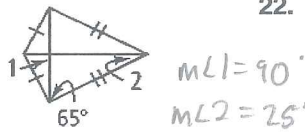


Find the measures of the numbered angles in each kite.

20.



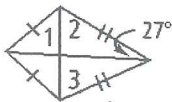
21.



22.



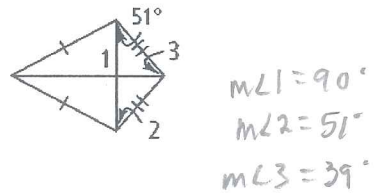
23.



24.

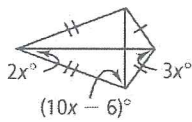


25.



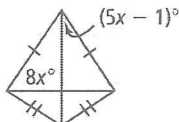
Algebra Find the value(s) of the variable(s) in each kite.

26.



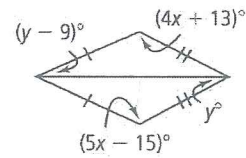
$x = 8$

27.



$x = 7$

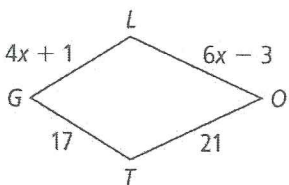
28.



$x = 28$   $y = 32$

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

29.



$x = 4$

30.

