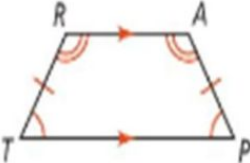
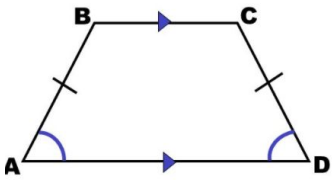
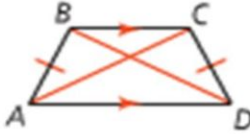


Trapezoid:

Isosceles Trapezoid:

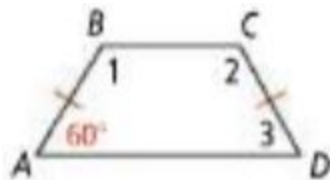
6.21	If a trapezoid is isosceles, then each pair of base angles is congruent	
6.22	If a trapezoid has one pair of congruent base angles, then it is an isosceles trapezoid	
6.23	A trapezoid is isosceles if and only if its diagonals are congruent	

1. Find the measure of each numbered angle in the isosceles trapezoids below:

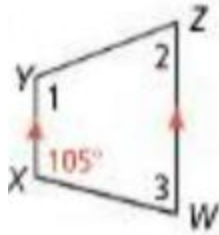
a.



b.

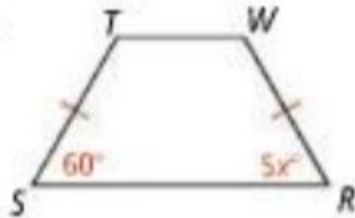


c.

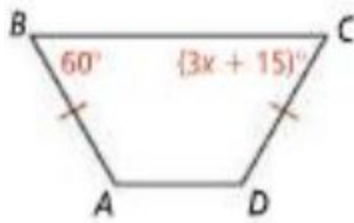


2. Find the value of the variables in each isosceles trapezoid:

a.



b.

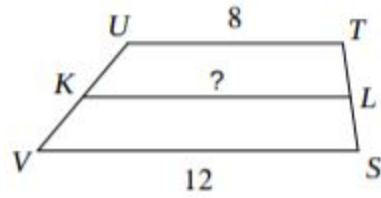


Midsegment of a Trapezoid:

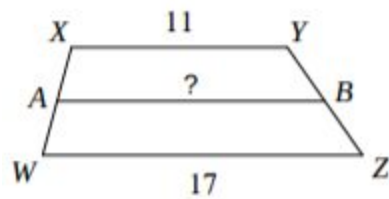
<p>Midsegment Theorem for Trapezoids</p>	<p>The midsegment of a trapezoid is parallel to each base and its length is half the sum of the lengths of the bases</p>	
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3. Find the length of each midsegment:

a.

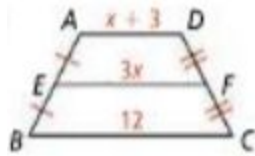


b.

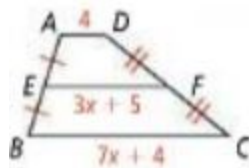


4. Find the value of the variables:

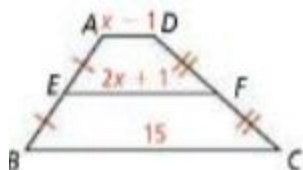
a.



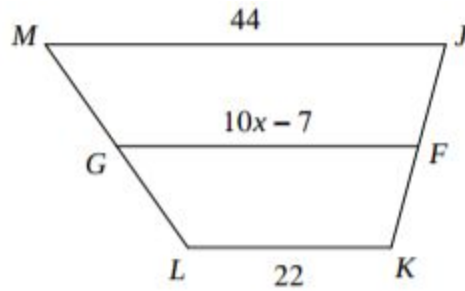
b.



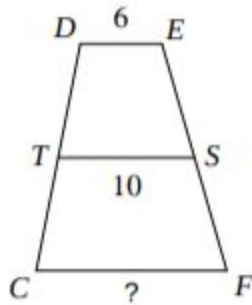
c.



d.



5. Find the length of the base of the trapezoid:

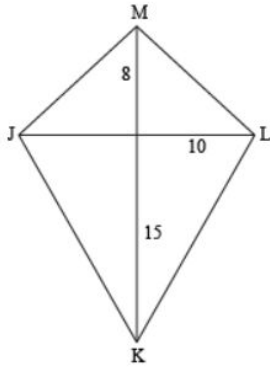


Kite:

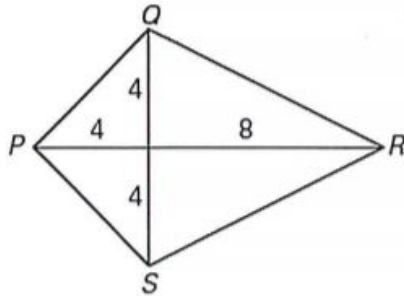
	If a quadrilateral is a kite, then its diagonals are perpendicular	
	If a quadrilateral is a kite then exactly one pair of opposite angles are congruent	

6. Calculate the perimeter of the Kite below:

a.

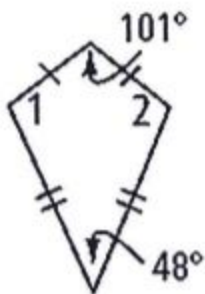


b.



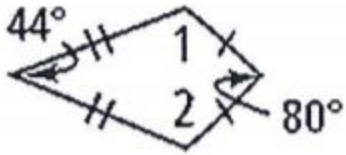
7. Find the missing angles of the kites below:

a.



Geometry CP
6.6 Trapezoids and Kites

b.



c.

