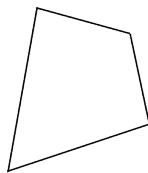


Geometry

6-6 Notes

Degrees in a Quadrilateral

How many degrees do you think the quadrilateral has?



In other words, $m\angle A + m\angle B + m\angle C + m\angle D = ?$

All degrees in ANY quadrilateral add to _____!!

Kite Examples:

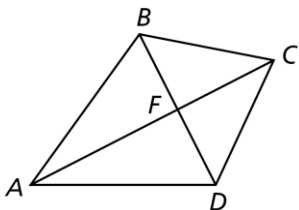
1. In kite ABCD, $m\angle DAB = 54^\circ$ and $m\angle CDF = 52^\circ$.

a. Find $m\angle DBC$

b. Find $m\angle BCD$

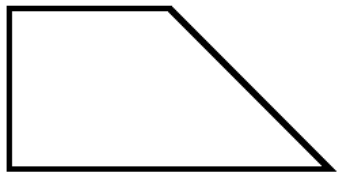
c. Find $m\angle FDA$

d. Find $m\angle ABC$



TRAPEZIODS:

Definition: A trapezoid is a quadrilateral with _____.



**Each of the parallel sides is called a _____.

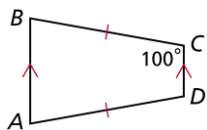
**The non-parallel sides are called the _____.

**The _____ of a trapezoid are two consecutive angles whose common side is a base.

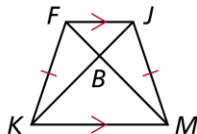
ISOSCELES TRAPEZOIDS:

Use the hand-out with your group to add to the diagram properties of isosceles trapezoids....

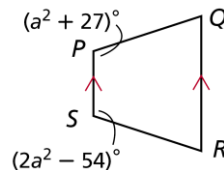
1. Find $m\angle A$.



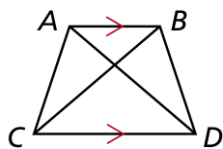
2. $KB = 21.9$ m and $MF = 32.7$ m
Find FB.



3. Find the value of a so that PQRS is isosceles



4. $AD = 12x - 11$, and $BC = 9x - 2$. Find the value of x so that ABCD is isosceles.

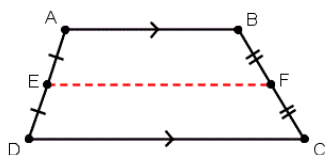


Midsegments of Trapezoids

Review: A midsegment of a triangle connects two _____ of the sides of the triangle.

In a trapezoid, the midsegment connects the _____ of the _____.

Trapezoid Midsegment Theorem



** _____ to each base

** The length is _____ the _____ of the _____

Example:

1. Find EH.

