

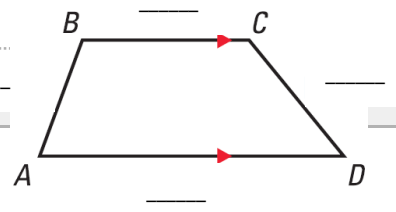
Geometry

7.5 Properties of Trapezoids and Kites

Trapezoid

Quadrilateral with exactly _____ pair of _____ sides

If the legs are _____, then the trapezoid is _____

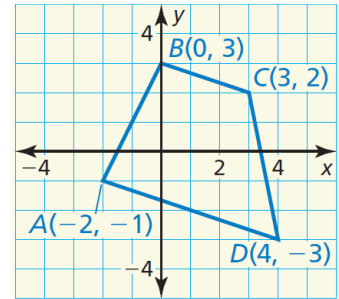
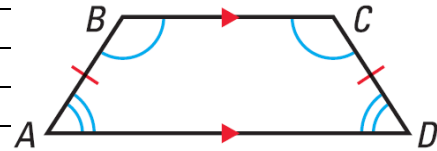


If _____ trapezoid, then each pair of base _____ is _____.

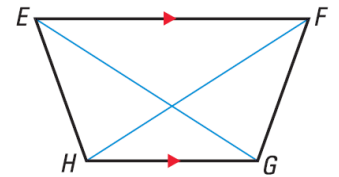
If _____ trapezoid, then _____ are _____.

The converses are also true

Show that $ABCD$ is a trapezoid. Then decide whether it is isosceles.

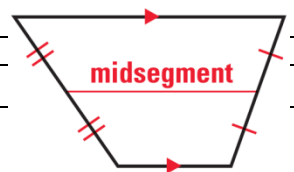


If the trapezoid is isosceles and $m\angle HEF = 70^\circ$, find $m\angle EFG$, $m\angle FGH$, and $m\angle GHE$.



Midsegment of a Trapezoid

Segment connecting the _____ of each _____



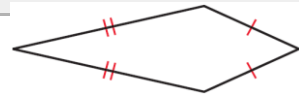
Midsegment Theorem for Trapezoids

The midsegment of a trapezoid is _____ to the _____ and its _____ is the _____ of the _____ of the _____.

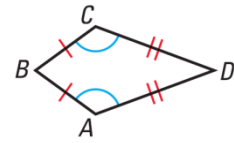
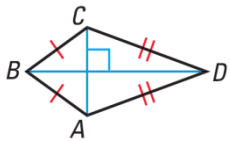
In trapezoid $JKLM$, $\angle J$ and $\angle M$ are right angles, and $JK = 9$ cm. The length of the midsegment \overline{NP} of trapezoid $JKLM$ is 12 cm. Find ML .

Kites

Quadrilateral with _____ pairs of _____ congruent sides

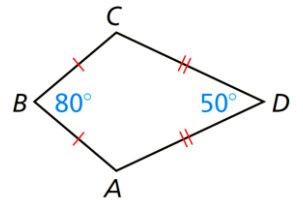


If kite, then the _____ are _____.

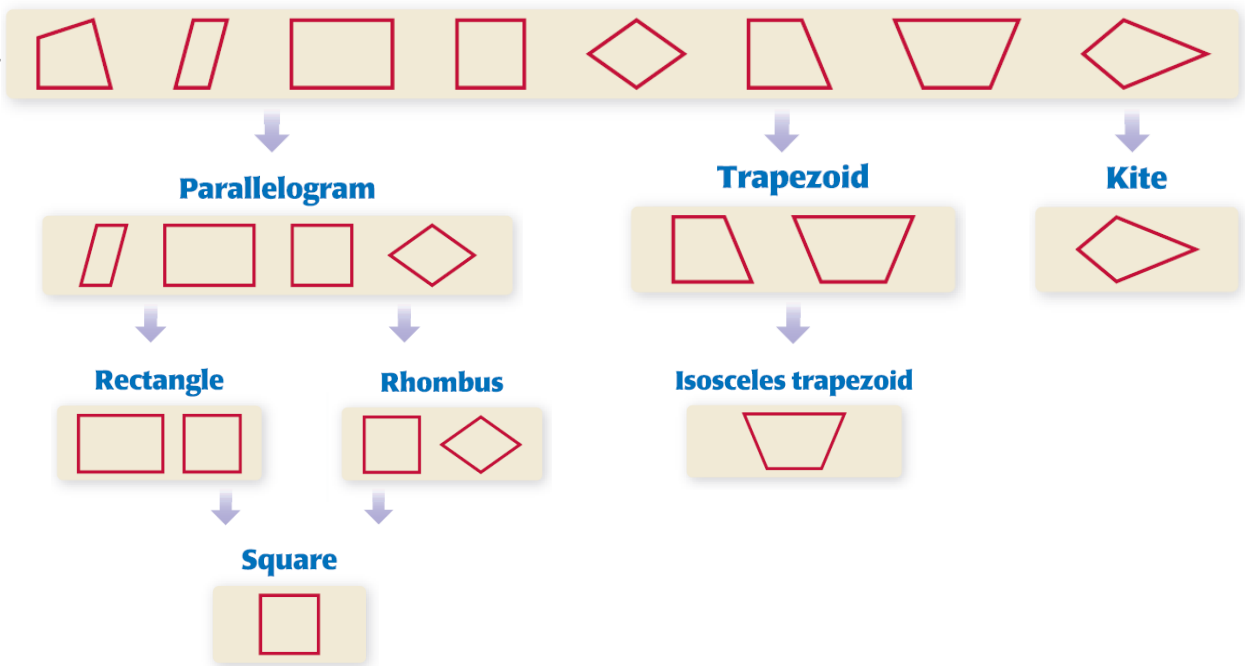


If kite, then exactly _____ pair of opposite _____ are _____.

Find $m\angle C$ in the kite shown.



Quadrilateral



Give the most specific name for the quadrilateral.

