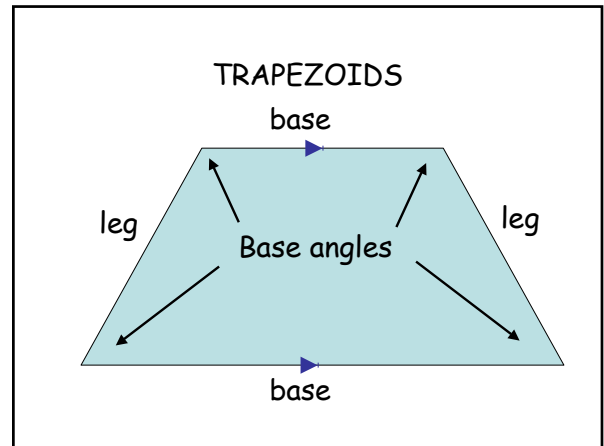
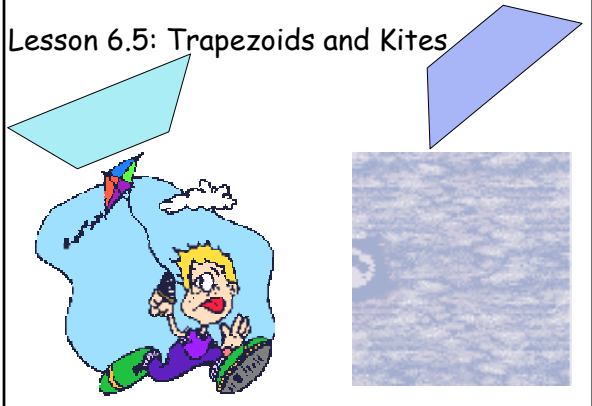
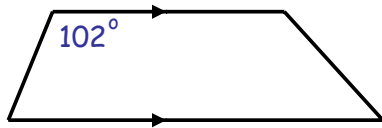


Lesson 6.5: Trapezoids and Kites



Since the bases of a trapezoid are parallel, the angles that share a leg are supplementary.

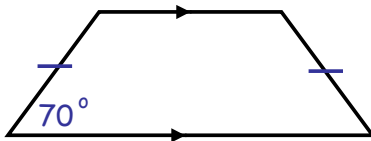


Find the measures of the other angles.

Isosceles Trapezoids

Theorem 6.15
The base angles of an isosceles trapezoid are congruent.

Find the measures of the other angles.



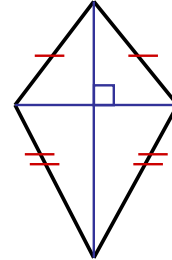
What can we determine about the diagonals of the isosceles triangle?

Theorem 6.16

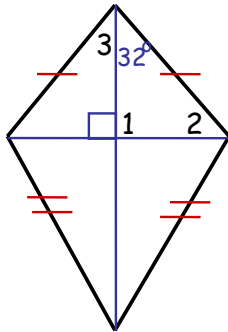
The diagonals of an *isosceles* trapezoid are congruent.

Another special quadrilateral is a *kite*.

The diagonals of a kite are perpendicular.



Find the measures of angles 1, 2, and 3.



Find the measures of angles 1, 2, and 3.

