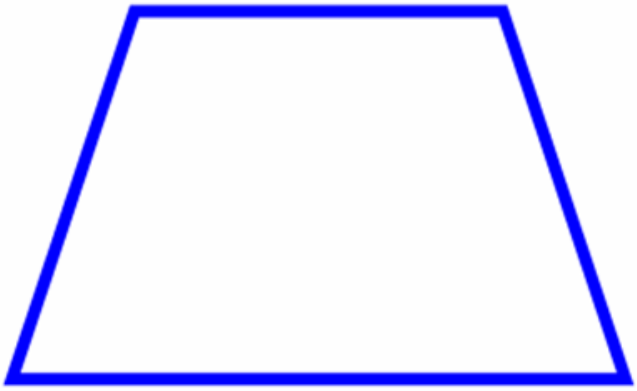
Def. Trapezoid

A quad. with exactly 1 pair of opp. sides being ||



Def. Isosceles Trap.

A Trap. with ≅ legs

Th. 6.21

If a trap. is isosceles, then each pair of base ∠'s is ≅.

Th. 6.22

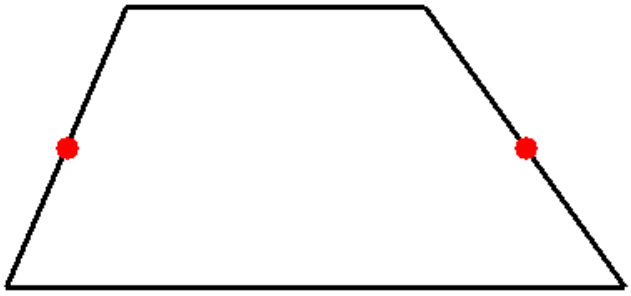
If a trap. has 1 pair of ≅ base ∠'s, then it is an isosceles trap.

Th. 6.23

A trap. is isosceles if and only if its diagonals are ≅.

Def. Midsegment of a Trapezoid

A segment that joins the midpts. of the legs of the trap.

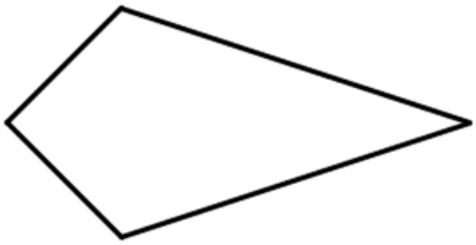


Th. 6.24

The midsegment of a trap. is || to each base and its measure is one half the sum of the lengths of the bases.

Def. Kite

A quad. with exactly two pairs of consecutive ≅ sides.



Th. 6.25

If a quad. is a kite, then its diagonals are ⊥.

Th. 6.26

If a quad. is a kite, then exactly on pair of opposite ∠'s is ≅.