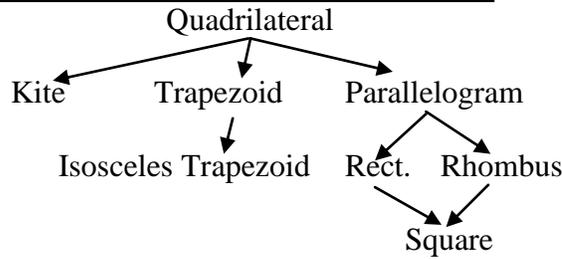


Chapter 6 Summary - Quadrilaterals

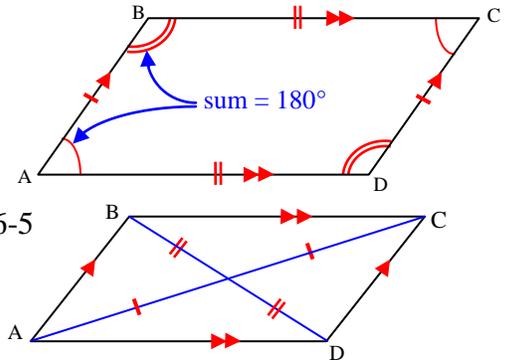


Parallelogram

Thm 6-1 → para. iff **both pair opp. sides** \cong ← Thm 6-7

Thm 6-2 → para. iff **both pair opp. \angle 's** \cong ← Thm 6-8

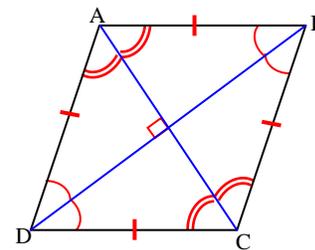
Thm 6-3 → para. iff **both pair diags bisect ea other** ← Thm 6-5



Rhombus

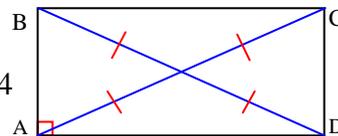
Thm 6-9: rhomb iff **ea diag. bisects 2 \angle 's** ← Thm 6-12

Thm 6-10: rhomb iff **diags are \perp** ← Thm 6-13



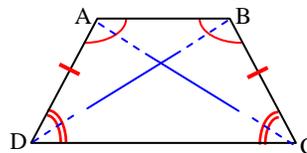
Rectangle

Thm 6-11: Rect iff **diags are \cong ... $\overline{AC} \cong \overline{BD}$** ← Thm 6-14



Isosceles Trapezoid

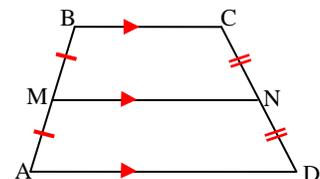
Thm 6-15: Isos Trap iff **base \angle 's \cong** ← Thm 6-16



Any Trapezoid

Thm 6-18: Trapezoid midsegment:

- \parallel to both bases ($\overline{MN} \parallel \overline{AD}$ & $\overline{MN} \parallel \overline{BC}$)
- Len = $\frac{1}{2}$ sum len of bases ... $MN = \frac{1}{2}(AD + BC)$



Thm 6-4: If ≥ 3 \parallel lines cut off \cong segs on 1 transversal, does the same on all transversals.

Kite

Thm 6-17: Diags are \perp

