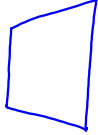


9.5 Classifying Quadrilaterals

Quad - Lateral
four sides

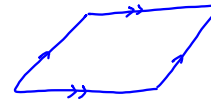
- Plane figure with four segments with each segment connecting two other segments at its endpoints



Special Cases

Parallelogram

↳ a quadrilateral with 2 pair of parallel sides



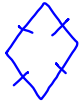
Rectangle

↳ A parallelogram with 4 right angles



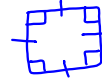
Rhombus

↳ A parallelogram with 4 equal side lengths

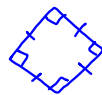


Square

- A parallelogram with 4 right angles, 4 equal sides
- Its a Rhombus and a Rectangle

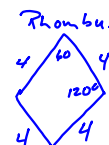
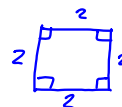


Classifying



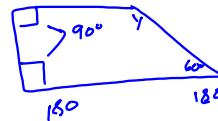
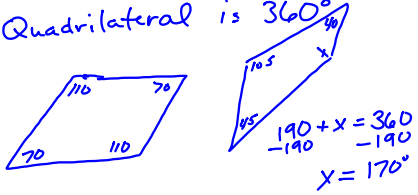
Square
Rhombus
Rectangle
Parallelogram

Quadrilaterals



In Parallelograms the angles next to each other (consecutive) equal 180°

Sum of Angles in a
Quadrilateral is 360°



$$\begin{aligned}
 90 + 90 + 60 + y &= 360 \\
 240 + y &= 360 \\
 -240 & \\
 y &= 120^\circ
 \end{aligned}$$

P482-483
1-29 all