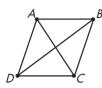
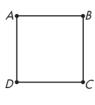
Lesson 8.4 Quadrilaterals

A **quadrilateral** is a polygon with four sides. Some examples are square, rectangle, parallelogram, rhombus, kite, and trapezoid.



B parallelogram

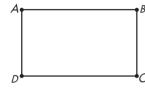
 \angle DAB = \angle BCD, \angle ADC = \angle CBA \overline{AB} = DC, \overline{AD} = \overline{BC} \overline{AC} bisects \overline{BD} , \overline{BD} bisects \overline{AC} . \triangle ADC is congruent to \triangle CBA.



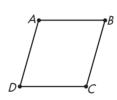
A **square** is a rectangle with 4 sides of same length and all angles equal.

$$AB = BC = CD = DA$$

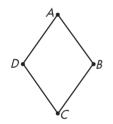
 $\angle ADC = \angle DCB, \angle CBA =$
 $\angle BAD = 90^{\circ}$



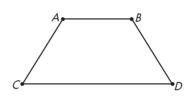
parallelogram with four right angles.
Copposite sides are equal. AB = DC,
AD = BC, ∠BAD = ∠ABC = ∠BCD = ∠CDA = 90°.



A **rhombus** is a parallelogram with all four sides the same length. Opposite angles are the same measure.



A **kite** has 2 pairs of adjacent sides that are congruent.



A **trapezoid** has just 2 sides that are parallel.

Identify each quadrilateral.

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