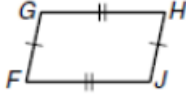
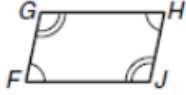

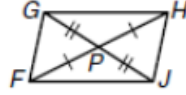


Properties of Parallelograms	
 $\overline{FG} \cong \overline{HJ}$ $\overline{GH} \cong \overline{JF}$ <p>Opposite sides are congruent.</p>	 $\angle F \cong \angle H$ $\angle G \cong \angle J$ <p>Opposite angles are congruent.</p>
 $m\angle F + m\angle G = 180^\circ$ $m\angle G + m\angle H = 180^\circ$ $m\angle H + m\angle J = 180^\circ$ $m\angle J + m\angle F = 180^\circ$ <p>Consecutive angles are supplementary.</p>	 $\overline{FP} \cong \overline{HP}$ $\overline{GP} \cong \overline{JP}$ <p>The diagonals bisect each other.</p>

There are six important properties of parallelograms to know:

1. Opposite sides are congruent ($AB = DC$).
2. Opposite angles are congruent ($D = B$).
3. Consecutive angles are supplementary ($A + D = 180^\circ$).
4. If one angle is right, then all angles are right.
5. The diagonals of a parallelogram bisect each other.
6. Each diagonal of a parallelogram separates it into two congruent triangles.