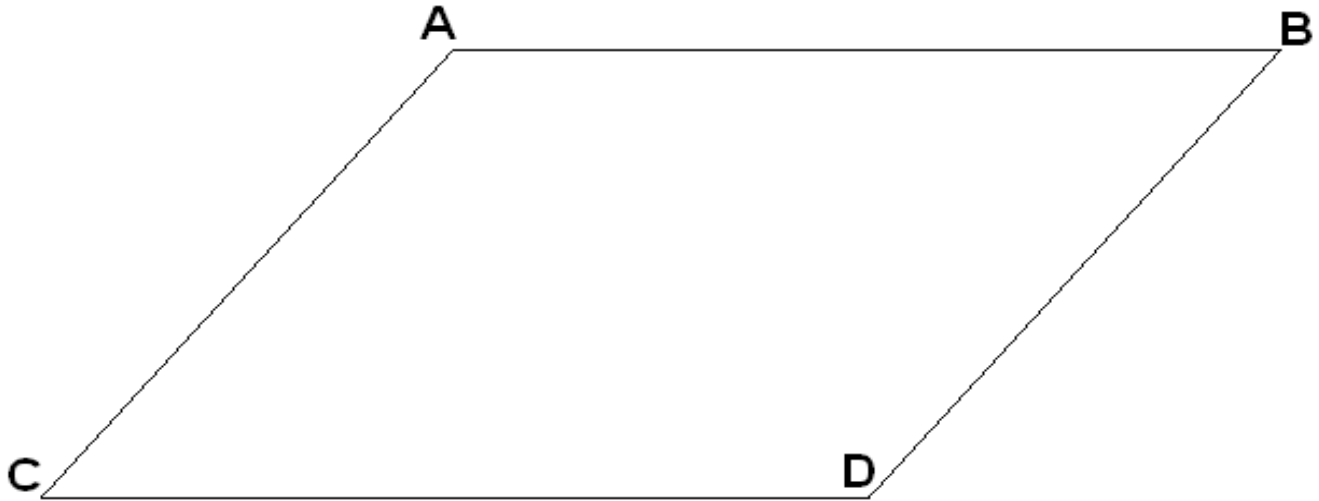


Discovering Properties of Parallelograms



Parallelogram: A four-sided figure with two pairs of parallel sides.

Draw the diagonal \overline{CB} . We're going to find some other properties that parallelograms have.

$m\angle ABC = m\angle$ _____ because they are _____.

$m\angle CBD = m\angle$ _____ because they are _____.

$CB = CB$ because they are _____.

So, $\triangle ABC \cong \triangle$ _____ because of congruence theorem _____.

Because these two triangles are congruent, we know that corresponding sides and corresponding angles are congruent.

So, side $AC =$ side _____ and side $AB =$ side _____.

Also, $m\angle BAC = m\angle$ _____ and $m\angle ACD = m\angle$ _____.

In addition, the relationship between $\angle BAC$ and $\angle ACD$ is that they are _____.