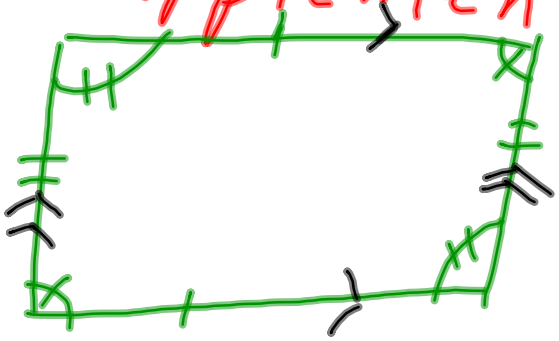
8-2 Parallelograms

Parallelogram -
a quadrilateral (4 sides)
with opposite sides
parallel.

1. Opposite sides are congruent
2. Opposite angles are congruent
3. Consecutive angles are supplementary



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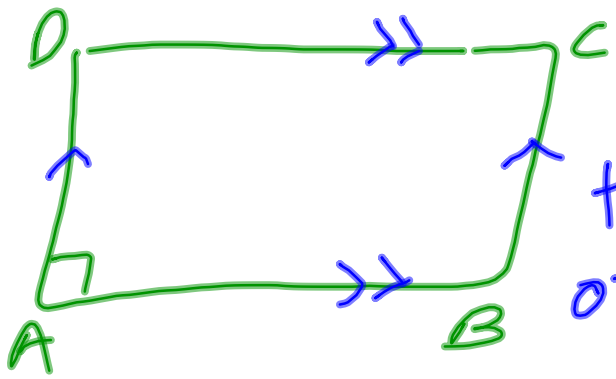

What are the measures of $\angle B, \angle C, \angle D$?

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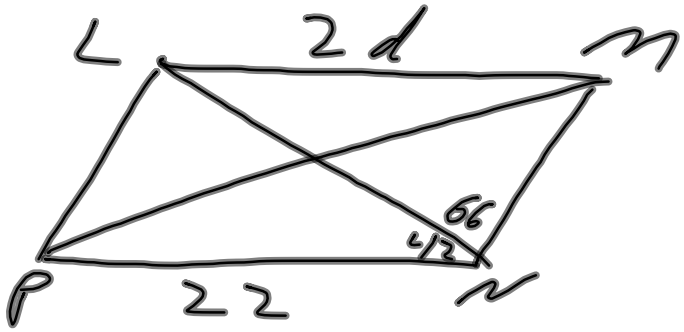
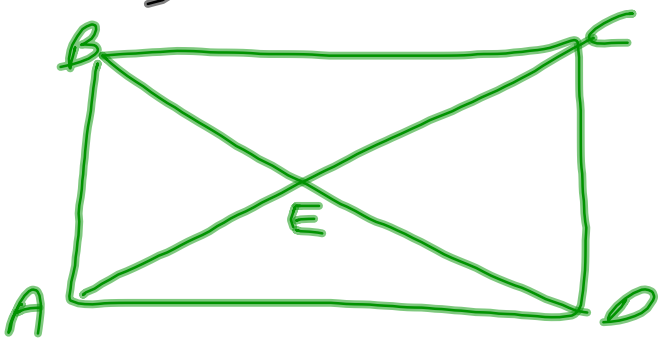


LMNP is a parallelogram. What is the measure of $\angle PLM$, $\angle LMN$ and d?

The diagonals of a parallelogram bisect each other.

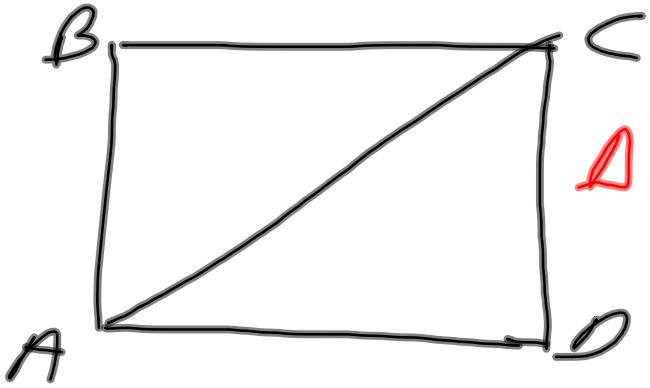


$\overline{AE} \cong \overline{EC}$ $\overline{BE} \cong \overline{ED}$

What are the coordinates of the point of intersection of the diagonals of parallelogram ABCD with vertices

A(2,5) B(6,6) C(4,0) D(0,-1)

A diagonal in a parallelogram creates 2 congruent $\triangle$s.



$\triangle ABC \cong \triangle CDA$